NAVY TRAINING SYSTEM PLAN

FOR THE

NATIONAL AIRSPACE SYSTEM

MODERNIZATION PROGRAM

N88-NTSP-A-50-0011/P

JUNE 2001

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

EXECUTIVE SUMMARY

The National Airspace System Modernization Program (NAS Mod) consists of various components enabling a massive upgrade of the analog Air Traffic Control (ATC) system with modern digital technology to enable the Department of Defense to keep pace with changing Federal Aviation Administration (FAA) guidelines and standards for terminal radar approach controls. Navy acquisition of NAS Mod will be through an Air Force led, joint effort. NAS Mod will replace the current AN/GPN-27 Airport Surveillance Radar and AN/UPX-27 Interrogator with the AN/GPN-30 Digital Airport Surveillance Radar (DASR); the current Automation Systems (AN/TPX-42 and AN/UYX-1) with the AN/FSQ-204 Standard Terminal Automation Replacement System (STARS); and the current information displays with the AN/FYC-22 Visual Information Display System (VIDS). STARS is also known as the Department of Defense (DoD) Advanced Automated System (DAAS) in the FAA community, but for this document it will be referred to as STARS. STARS and DASR are currently in Multi-service Operational Test and Evaluation (MOT&E) at Eglin AFB. The Defense Acquisition System (DAS) Production, Deployment Operations, and Support Phase for these systems is planned to begin in August 2001. VIDS is in Developmental Testing at Space and Naval Warfare Systems Center (SPAWARSYSCEN) Charleston and is in the DAS Production, Deployment Operations, and Support Phase. STARS and DASR are in the System Development and Demonstration Phase of the DAS. VIDS is an Abbreviated Acquisition Program (AAP) which is not required to conform to the DAS standard phases and milestones, but can be considered to be in the System Development and Demonstration Phase.

The NAS Mod components are of Non-Developmental design consisting of modified Commercial Off-The-Shelf equipment provided by Raytheon Corporation. SPAWARSYSCEN Charleston is the Navy Integration Agent for NAS Mod and will install and test the NAS Mod components.

A new DASR/STARS maintenance technician Navy Enlisted Classification (NEC) has been developed for Navy Electronics Technicians (ET). NEC 1517 will be awarded to Navy ETs who complete the new DASR/STARS follow-on training track, *C-103-2069, DASR/STARS Maintenance Technician Pipeline*. The new pipeline will be established at the Naval Air Technical Training Center (NATTC), Pensacola, Florida, and is scheduled to be ready for training in October 2002. It will be phased-in over a five-year period, while at the same time the existing AN/GPN-27 Radar maintenance course, AN/TPX-42A(V)5 DAIR, and AN/TPX-42A(V)10 RATCF maintenance technician pipelines will be phased-out.

Navy personnel in the Air Traffic Controller (AC) rating and Marine Corps Air Traffic Controllers, as well as DoD civilian controllers will operate NAS Mod components. Operator instruction will be added to the curriculum of the two existing operator training courses, *C-222-2010, Air Traffic Controller* and *C-222-2022, Advanced Radar Air Traffic Control*. Both courses are taught at NATTC Pensacola, Florida.

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Maintenance of the NAS Mod components will be performed at two levels: organizational and depot. Navy ETs with NEC 1517 and Marine Corps personnel with MOS 5953 will perform organizational level maintenance. Civilian personnel at a contractor facility or the FAA Logistics Center in Oklahoma City, Oklahoma, will perform depot level maintenance. NATTC Pensacola requires two additional ET instructor billets to conduct the DASR/STARS maintenance training along with internal Chief of Naval Education and Training (CNET) reprogramming of existing billets. No other increases to existing Navy or Marine Corps manpower will be required to operate or maintain NAS Mod components.

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LIST OF ACRONYMS

AC	Air Traffic Controller
AFB	Air Force Base
AFLCS	Airfield Lighting Control System
AFOTEC	Air Force Operational and Test Evaluation Center
AMTCS	Aviation Maintenance Training Continuum System
ASR	Airport Surveillance Radar
ARATC	Advanced Radar Air Traffic Control
ARTCC	Air Route Traffic Control Center
ATC	Air Traffic Control
ATIS	Automatic Terminal Information Service
BESEP	Base Electronic System Engineering Plan
CAI	Computer Aided Instruction
CBT	Computer-Based Training
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief, Atlantic Fleet
CINCPACFLT	Commander in Chief, Pacific Fleet
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COTS	Commercial Off-The-Shelf
CRT	Cathode Ray Tube
CY	Calendar Year
DAAS	DoD Advanced Automated System
DAIR	Direct Altitude and Identity Readout
DASI	Digital Altimeter Setting Indicator
DASR	Digital Airport Surveillance Radar
DoD	Department of Defense
DP	Display Processor
ES	Emergency Service
ESL	Emergency Service Level
ET	Electronics Technician
ETMS	Enhanced Traffic Management System
ETVS	Enhanced Terminal Voice Switch
FAA	Federal Aviation Administration
FAAAC	Federal Aviation Administration Aeronautical Center
FAALC	Federal Aviation Administration Logistics Center
FS	Full Service
FSL	Full Service Level
FY	Fiscal Year

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LIST OF ACRONYMS

GB DAT	Gigabit Digital Audio Tape
GB DLT	Gigabit Digital Linear Tape
GFE	Government Furnished Equipment
GPETE	General Purpose Electronic Test Equipment
GPW	General Purpose Workstation
IOC	Initial Operating Capability
JRB	Joint Reserve Base
LAN	Local Area Network
LRU	Line Replaceable Unit
MACS	Marine Air Control Squadron
MATC	Marine Corps Air Traffic Control
MATMEP	Maintenance Training Management and Evaluation Program
MCAF	Marine Corps Air Facility
MCAS	Marine Corps Air Station
MCW	Monitor and Control Workstation
MIDDS	Meteorology and Oceanography Integrated Data Display System
MOS	Military Occupational Specialty
MSD	Material Support Date
MSSR	Monopulse Secondary Surveillance Radar
MTIP	Maintenance Training Improvement Plan
NA	Not Applicable
NALF	Naval Auxiliary Landing Field
NAS	Naval Air Station
NAS Mod	National Airspace System Modernization Program
NATTC	Naval Air Technical Training Center
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NAVSTA	Naval Station
NAWC	Naval Air Warfare Center
NAWCAD	Naval Air Warfare Center Aircraft Division
NAWC-TSD	Naval Air Warfare Center Training Systems Division
NAWS	Naval Air Weapons Station
NDI	Non-Developmental Item
NEC	Navy Enlisted Classification
NOLF	Naval Outlying Field
NTSP	Navy Training System Plan

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LIST OF ACRONYMS

OJT	On-the-Job Training
OPO	OPNAV Principal Official
ORD	Operational Requirements Document
OSF	Operational Support Facility
OT&E	Operational Test and Evaluation
PDA	Program Developing Agent
PMA	Program Manager, Air
PME	Prime Mission Equipment
PSR	Primary Surveillance Radar
RATCF	Radar Air Traffic Control Facility
RFOU	Ready For Operational Use
RFT	Ready For Training
SPAWARSYSCEN	Space and Naval Warfare Systems Center
SPETE	Special Purpose Electronic Test Equipment
SRU	Shop Replaceable Unit
SSS	Site Support Server
STARS	Standard Terminal Automation Replacement System
TATCF	Transportable Air Traffic Control Facility
TBD	To Be Determined
TCW	Terminal Controller Workstation
TD	Training Device
TDW	Tower Display Workstation
TECR	Training Equipment Change Requests
TFS	Total Force Structure
TOTS	Tower Operator Training System
TTE	Technical Training Equipment
VIDS	Visual Information Display System
WSDI	Wind Speed and Direction Indicator

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

PREFACE

This Proposed Navy Training System Plan (NTSP) for the National Airspace System Modernization Program (NAS Mod) has been prepared in accordance with guidelines set forth in the Navy Training Requirements Documentation Manual, OPNAV Publication P-751-1-9-97. This document is the first iteration and incorporates the Standard Terminal Automation Replacement System (STARS), Visual Information Display System (VIDS), and Digital Airport Surveillance Radar (DASR) as defined in the NAS Mod program.

The Enhanced Terminal Voice Switch (ETVS), an Air Traffic Control voice communications system, is not an integral part of the Navy NAS Mod program and is not discussed in this NTSP. Refer to the Approved NTSP, N88-NTSP-A-50-9701/A, dated April 1999 for information concerning ETVS.

This Proposed NTSP incorporates comments submitted on the Draft NTSP as follows:

- **Director of Naval Training and Education (N79).** Comments related to maintenance training, inclusion of NAS Mod in Air Traffic Control "A" and "C" Schools, training for overseas locations, and Fiber Optic Intersite Maintenance.

- **Space and Naval Warfare Systems Center, Charleston.** Comments related to technical changes, nomenclature, interface, depot maintenance, Ready for Training dates, installation and delivery schedules, and points of contact.

- **Naval Air Warfare Center Aircraft Division (NAWCAD) St. Inigoes.** Comments related to technical changes, nomenclature, system designations, and training.

- **Naval Air Technical Training Center, Pensacola.** Comments related to milestone updates, training, course lengths and content, acronym list, nomenclature, verbiage changes, manning, curricula materials, training aids, and points of contact.

This Proposed NTSP incorporates comments submitted on the Proposed NTSP as follows:

- **Naval Air Systems Command, PMA-213.** Comments related to maintenance and operator training, manning requirements, and program documentation.

- **Naval Air Systems Command, PMA-205.** Comments related to course ready for training and technical training equipment delivery date changes.

- **Space and Naval Warfare Systems Center, Charleston.** Comments related to acronym usage, program development and schedule changes, and training equipment usage.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Title-Nomenclature-Acronym. National Airspace System Modernization Program (NAS Mod)

2. Program Elements

Digital Airport Surveillance Radar	35114F
Visual Information Display System	0204696N
Standard Terminal Automation Replacement System	35137F

B. SECURITY CLASSIFICATION

1. System Characteristics	Unclassified
2. Capabilities	Unclassified
3. Functions	Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor	CNO (N78)
OPO Resource Sponsor	CNO (N78)
Marine Corps Program Sponsor	CMC (APC-5)
Developing Agency	NAVAIRSYSCOM (PMA213)
Training Agency	CINCLANTFLT (N721) CINCPACFLT (N77) CNET (ETE32)
Training Support Agency	NAVAIRSYSCOM (PMA205)
Manpower and Personnel Mission Sponsor	CNO (N12) NAVPERSCOM (PERS-4, PERS-404)
Director of Naval Training	CNO (N79)
Marine Corps Force Structure	MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. The DASR, STARS, and VIDS will be incorporated into the Navy's National Airspace System facilities as part of the NAS Mod program. Facilities identified to receive the NAS Mod components include:

- All shore-based Navy and Marine Corps Air Traffic Control Facilities
- Air Traffic Control School, Naval Air Technical Training Center (NATTC) Pensacola, Florida
- Space and Naval Warfare Systems Center (SPAWARSYSCEN) Charleston, South Carolina

This modernization is based on the Department of Defense (DoD) commitment to keep pace with the Federal Aviation Administration (FAA) in the National Airspace System Modernization process. Use of the NAS Mod components will allow DoD facilities to provide services comparable to those provided by the FAA to civil aircraft in the airspace delegated to DoD. This includes providing the following flight services to air bases and airports within the DoD jurisdiction: flight following, separation, expeditious handling, radar approach control, and landing. Coordination of the National Airspace System Modernization for FAA and DoD facilities is accomplished through the Joint Program Office, Electronic Systems Center, Air Force Material Command, Hanscom Air Force Base (AFB), Massachusetts.

2. Foreign Military Sales. For Air Force, Army, or FAA delivery schedules contact the Developing Agency, Naval Air Systems Command (NAVAIRSYSCOM) Program Manager, Air (PMA) 213.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.

Developmental and operational testing have been completed with the individual systems.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.

NAS Mod will replace the current AN/GPN-27 Airport Surveillance Radar (ASR) and AN/UPX-27 Interrogator with the AN/GPN-30 DASR, the current Automation Systems (AN/TPX-42A(V)5 and AN/TPX-42A(V)10) with the AN/FSQ-204 Standard Terminal Automation Replacement System (STARS), and the current information displays with the AN/FYC-22 VIDS.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. NAS Mod consists of three primary components: the AN/GPN-30 Digital Airport Surveillance Radar (DASR), the AN/FSQ-204 Standard Terminal Automation Replacement System (STARS), and the AN/FYC-22 VIDS.

a. Digital Airport Surveillance Radar. DASR will consist of an Antenna Pedestal Group, a Primary System Radar Group, and a System Control and Monitoring/Radar Data Processor.

(1) Antenna Pedestal Group

(a) Primary Antenna. The primary antenna will be a doubly curved reflector with two-beam feed and modified cosecant squared vertical pattern.

(b) Secondary Antenna. The secondary antenna is a high gain planar array, monopulse Large Vertical Aperture antenna which meets FAA vertical coverage, sharp cutoff below beam peak, and Mode-S compatible standards.

(c) Pedestal. The pedestal will have dual drive motors, making it possible to service the alternate motor in the event of failure and still maintain an operational radar. The pedestal also features dual 14-bit optical encoders with individual power supplies.

(2) Primary System Radar Group

(a) Primary System Radar Transmitter. The eight module, all solid-state, coherent transmitter with fault tolerant fail-soft architecture features air cooled, hazard-free, low voltage operation, dedicated power supplies for each module, and built-in fault isolation down to a single Line Replaceable Unit (LRU).

(b) Primary System Radar Receiver. The redundant target and weather receivers use identical radio frequency wide-band receivers and converters operating in the 2700 to 2900 megahertz range with sensitivity time controls programmable from 0 to 72 decibels in six decibel steps.

(c) Signal Data Processor. Dual redundant processors carry out identical tasks synchronously, such that should a processor fail, the failure is transparent to the system. The signal data processor features programmable digital pulse compression with range sidelobes below 50 decibels and preprogrammed and adaptive threshold clutter and beam maps.

(3) System Control and Monitoring/Radar Data Processor. These two functions co-exist on dual redundant workstations.

(a) System Control and Monitoring. Graphic windows of system configuration, system controls, and LRU status are displayed on the workstation color display. Operational controls are accessed via buttons on the various control screens; reconfiguration of the system is available at a single control point accessible to the logged-on maintenance operator with control enabled. All four workstations (two at the radar site and two remote) display the current system status, and all menus apart from adaptation data can be viewed on any of the workstations.

(b) Radar Data Processor. The radar data processor receives track data from the primary surveillance radar and plot data from the secondary surveillance radar. Merging of primary surveillance radar and monopulse secondary surveillance radar tracks takes place if tracks from the two sensors fall within set limits. The on-line radar data processor provides redundant outputs to the radar data remoting equipment in All-purpose Structured Eurocontrol Radar Information Exchange (ASTERIX) format.

b. Standard Terminal Automation Replacement System. In the FAA community the DoD Advanced Automated System (DAAS) is known as STARS, but for this document it will be referred to as STARS. STARS will provide a system that maximizes the use of Commercial Off-The-Shelf (COTS) items and Non-Developmental Items (NDI). STARS will provide a fully digital, fault tolerant, high availability system to support essential FAA and DoD Air Traffic Control (ATC) services. STARS is equipped with a single scaleable hardware and software system for all terminal facilities, plus an expandable and extensible platform to support future workloads. User benefit programs are also provided. STARS will improve the efficiency of controllers and maintenance technicians.

(1) Radar Data Processor. The Radar Data Processor (RDP) has two redundant processors (one on-line and one hot standby) mounted in the equipment room rack and interfaced to Full Service Level (FSL) Local Area Networks (LAN). The processor size depends on the number of radar systems: Sun Ultra 1 Model 170 for 0-3 radar systems (small), Sun Ultra 1 Model 200E for 4-13 radar systems (medium), and Sun Ultra 2 Model 1300 for 14-16 radar systems (large). System software handles radar data inputs, processes flight data, and maintains and monitors system tracks.

(2) Terminal Controller Workstation. The Terminal Controller Workstation (TCW) consists of one Full Service (FS) Display Processor, one Emergency Service (ES) Display Processor, and one Display Controller-Server mounted in the TCW Console. The ES Display Processor and Controller-Server is the Sun Ultra 1 Model 170. The FS Display Processor depends on the number of radar systems: Sun Ultra 1 Model 170 for 0-3 radar systems (small), Sun Ultra 1 Model 200 for 4-8 radar systems (medium), and Sun Ultra 2 Model 1300 for 9-16 radar systems (large).

(3) Tower Display Workstation. The Tower Display Workstation (TDW) consists of one FS Display Processor, one ES Display Processor, and one Display Controller-Server mounted in the tower equipment room rack. The ES Display and Controller-Server is the Sun Ultra 1 Model 170E. The FS Display Processor depends on the number of radar systems: Sun Ultra 1 Model 170 for 0-8 radar systems (small) and Sun Ultra 1 Model 200E

for 9-16 radar systems (large). Interface to remote towers (greater than 5,000 feet from parent facility) via two or four Government-Furnished Equipment (GFE) lines.

(4) Monitor and Control Workstation. The Monitor and Control Workstation (MCW) consists of one FS Processor, one ES Processor, and one Display Processor (DP) mounted in the MCW computer table in the equipment room. All FS and ES processors are Sun Ultra 5; all DP processors are Sun Ultra 10. The MCW has one standard 24-inch 1280 x 1024 Cathode Ray Tube (CRT) display. The MCW provides control and monitoring display for control system operation, system status display and/or update, system message display, and control playback of recorded system data.

(5) General Purpose Workstation. The General Purpose Workstation (GPW) consists of one Sun Ultra 5 with integrated graphics controller, one standard 21-inch 1024 x 1280 CRT display, and a Pseudo-pilot GPW for Pseudo-pilot position assigned training scenario flights to control in response to trainee position controller directions. Contract quantities provide for one Pseudo-pilot for each training TCW.

(6) Test and Training Simulator. The Test and Training Simulator consists of the Sun Ultra 5, and communicates with Pseudo-pilot GPWs via the supporting LAN. The Simulator creates simulated system inputs from scenario generation tools for use by FSL and Emergency Service Level (ESL) to aid in certification, test, and training of controllers. The Simulator has optional voice recognition and synthesis capability.

(7) Site Support Server. The Site Support Server (SSS) consists of the Sun Ultra 5 with archival tape storage. Sites with less than three radar systems will have 12 Gigabit Digital Audio Tape (GB DAT), and sites with three or more radar systems will have 40 Gigabit Digital Linear Tape (GB DLT). SSS provides storage of Site Adaptation Data Files.

(8) Data Recording Equipment. The Data Recording Equipment (DRE) has two redundant Sun Ultra 5 processors (one on-line and one hot standby), each with two tape drives. Each tape drive can record at least 24 hours of system data. Sites with less than three radar systems will have 12 GB DAT and sites with three or more radar systems will have 40 GB DLT.

(9) Peripheral Equipment

(a) Printer. The printer is the HP LaserJet 5000N

(b) Equipment Racks. Equipment racks come in two sizes, 6-foot and 3.5-foot racks. They are made of steel with a Plexiglas front door, and include a steel rear-access door. They are equipped with two independent, Alternating Current power feeds with Power Conditioning Units (PCU). The six-foot rack dimensions are 73.62” High (H) x 22.56” Wide (W) x 31.56” Deep (D) for the full service rack assembly and the local tower processor rack assembly. The 3.5-foot rack dimensions are 43.87” H x 22.56” W x 31.56” D for the workstation hub rack assembly, and the remote tower processor and automation rack assembly.

(10) Communications Gateway Equipment. The Communications Gateway Equipment (CGE) has dual redundant Sun Ultra 5 processors (two each for ESL and FSL). Modem Sharing Units (MSU) split Air Route Traffic Control Center (ARTCC), Enhanced Traffic Management System (ETMS), and radar inputs for redundant ESL and FSL equipment (radar only for ESL). Processing includes Radar and ARTCC message validation and processing, Radar data rho-theta filtering, and multi-scan radar correlation.

(11) Network Equipment. Network equipment utilizes Ethernet LAN (both 100 and 10 Mbps) over twisted pair and/or fiber optics, plus a combination of switches, hubs, and routers. Units are stackable; the modular design allows for addition of components for specific site configurations. The units act as Server Network Management Protocol agents reporting to STARS monitor and control. Firewalls and routers provide network security.

c. Visual Information Display System. VIDS is a Commercial Off-The-Shelf network integration of many small systems used in an ATC facility. VIDS is a client server-based system integrating multiple information systems into a Touch Entry display for each operating position in ATC facilities.

VIDS uses redundant file servers with hubs, workstations, video integration components, audio components, 100BaseT Ethernet, and fiber optics to interface and manage all the system data. The network operating system is Windows NT 4.0. The display software was developed to support the requirements of each system interfacing with VIDS to maximize the information available to the user.

VIDS will consolidate the processing, control, and display of information for the following systems:

- ID-2446/U Master Wind Speed and Direction Indicator (WSDI)
- ML-661/F Digital Altimeter Setting Indicator (DASI)
- AN/FSN-7 Airfield Lighting Control System (AFLCS)
- Automatic Terminal Information Service (ATIS)
- SG-1064 Facility Time Code Generator (TCG)
- Automated Surface Observing System (ASOS) Operator Interface Device (OID)
- AN/GMQ-27 Weather Vision and/or Meteorology and Oceanography Integrated Data Display System (MIDDS)
- FA-10095 FAA Flight Data Input/Output
- Remote Video Cameras

VIDS will replace the following system components in the control tower:

- ID-2447A/U Slave WSDIs
- ID-2423/F DASI Displays
- AN/FSN-7 AFLCS display, keyboard, trackball, and the Central Processor Unit (CPU)
- ATIS System
- ID-2384G and ID-2396 Clock Displays
- Weather Vision/MIDDS Display
- FA-10095-2 Printer
- FA-10095-3 Keyboard
- FA-10095-4 Display
- Remote Video Camera Displays and Controls

VIDS will automate the following control tower administrative functions using a centralized database:

- Daily Operations Log - FAA Form 7230-4
- Position Log - FAA Form 7230-10
- Air Traffic Activity Report

2. Physical Description

a. Digital Airport Surveillance Radar. The DASR system includes the Prime Mission Equipment (PME) and facilities. The DASR PME includes the Primary Surveillance Radar (PSR) with weather channels, Monopulse Secondary Surveillance Radar (MSSR), PSR and MSSR antennas, operator maintenance terminals, surveillance data displays, modems, and surveillance data translators, with video display control units. The facilities are the tower, equipment shelter, power distribution system, uninterruptible power supply, engine generator, and interconnecting cabling. Ancillary equipment includes the PSR moving target indicator with towers and housing, the MSSR remote systems monitor with tower, housing, and local and remote control panels.

COMPONENT	LENGTH (FEET)	WIDTH (FEET)	HEIGHT (FEET)	WEIGHT (POUNDS)
Engine-Generator Set	12	15	10	41,000
Pre-fabricated Shelter	30	12	10	82,000

Note: The physical dimensions of the remaining components will be added in future updates to this NTSP, as information becomes available.

b. Standard Terminal Automation Replacement System. The physical size of each STARS component is not available at this time. However, all equipment will fit within the two different size equipment racks provided. SPAWARSYSCEN Charleston conducted a site survey of the schoolhouse at NATTC Pensacola during Fiscal Year (FY) 99 to determine the physical constraints associated with the classroom and lab space to be used for the STARS maintenance course. The site Base Electronic System Engineering Plan (BESEP) is under development by SPAWAR Code 313 and has not been released.

c. Visual Information Display System. VIDS contains a Standard Information Window that provides basic safety of flight information to the controller. This information is provided by live sensor data from the incorporated air traffic control systems. The Standard Information Window is located at the top of the Air Traffic Controller's display, and can be sized using the "Size" button to suit the operator's preference.

VIDS also displays a main menu bar that provides a central point for the user to perform commonly occurring operations. It consists of a series of buttons and is located near the bottom of the controller's display.

3. New Development Introduction. The NAS Mod components are NDI, consisting of modified COTS equipment.

4. Significant Interfaces. The DASR will interface with the STARS and the VIDS when they are introduced to the fleet.

5. New Features, Configurations, or Material. Not Applicable (NA)

H. CONCEPTS

1. Operational Concept. Operator duties for the NAS Mod components consist of energizing and de-energizing the components to be used. These actions will be performed by Navy and Marine Corps Air Traffic Controllers, and civilian DoD personnel assigned to the Air Operations Department.

2. Maintenance Concept. The NAS Mod components will be maintained using a two level maintenance concept, organizational and depot.

a. Organizational. Navy personnel in the Electronics Technician (ET) rating with Navy Enlisted Classification (NEC) 1517 and Marine Corps personnel with military Occupational Specialty (MOS) 5953 will perform on-site organizational level maintenance. This will include fault isolation and troubleshooting prime mission equipment as well as any required servicing, aligning, cleaning, and lubricating.

(1) Preventive Maintenance. Preventive maintenance consists of periodic inspections and servicing per applicable Maintenance Requirements Cards. Most preventive maintenance will be accomplished with the components in the operational state and without degrading system performance. Cleaning and lubrication of the rotary joint slip ring of the DASR will require that the system be shut down.

(2) Corrective Maintenance. Corrective maintenance will include on-equipment and off-equipment maintenance actions. On-equipment maintenance consists of fault isolation and removal and replacement of faulty LRUs in an operational environment. Off-equipment maintenance will include limited repair of Shop Replaceable Units (SRU) when failures can be isolated using Built-In Test and limited support equipment and technical data.

b. Intermediate. NA

c. Depot. Depot maintenance will consist of repairing failed LRUs and SRUs down to the piece part level. Depot maintenance may also include emergency maintenance, engineering support, and other logistics support not available at the organizational level. Initially, the contractor will provide all depot level maintenance functions. The FAA intends to establish an organic depot at the FAA Logistics Center in Oklahoma City, Oklahoma, for all DoD and FAA DASR systems by FY05. Organic depot support for STARS is planned in FY02. Depot maintenance for VIDS is currently under business case analysis and will be address in future iterations of this NTSP.

d. Interim Maintenance

1. Digital Airport Surveillance Radar. The contractor (Raytheon) will provide Interim Contractor Support. Raytheon and/or SPAWARSYSCEN Charleston will provide maintenance support required during initial installation of NAS Mod at each installation site. The DASR and STARS systems will be under warranty for one year.

2. Standard Terminal Automation Replacement System. The FAA depot is scheduled to be established by November 2001, and thus no interim support is anticipated to be required for Navy sites. STARS will have a one-year warranty that will be in effect after system acceptance from Raytheon at SPAWARSYSCEN Charleston.

3. Visual Information Display System. SPAWARSYSCEN Charleston will provide VIDS interim maintenance support.

e. Life Cycle Maintenance Plan. To be Determined (TBD)

3. Manning Concept. Introduction of the NAS Mod components will have no impact to the current manning levels for operators or maintainers in the Navy and Marine Corps. The Navy has established a new NEC, *ET 1517 - DASR/STARS Maintenance Technician*. ET personnel currently having NEC 1574, 1578, or 1580 will initially fill these billets.

4. Training Concept. The object of the NAS Mod training program is to provide trained DASR/STARS maintenance technicians and operators to shore-based Navy and Marine Corps Air Traffic Control Facilities. The contractor will provide initial training for Operational Test and Evaluation (OT&E) personnel, site installation team members, and other key personnel. Initial maintenance training will be provided to NATTC Pensacola instructors concurrent with the installation of the first set of Technical Training Equipment (TTE). Follow-on DASR/STARS maintenance training for Navy ETs will be accomplished by developing a new DASR/STARS maintenance training track, *C-103-2069, DASR/STARS Maintenance Technician Pipeline*, which will be phased-in over a five-year period beginning in October 2002. The following three existing courses will be phased-out on a parallel schedule:

- C-103-2060, AN/GPN-27 Radar Maintenance Technician Pipeline
- C-103-2051, AN/TPX-42A(V)10 RATCF DAIR Maintenance Technician Pipeline
- C-103-2053, AN/TPX-42A(V)5 DAIR Maintenance Technician Pipeline

The current Marine Corps pipeline, *C-103-2080, Marine Air Traffic Control Radar Technician Pipeline*, will not change with the introduction of the NAS Mod components.

The established training concept for most aviation maintenance training divides “A” School courses into two or more segments called Core and Strand. Many organizational level “C” School courses are also divided into separate Initial and Career training courses. “A” School Core courses include general knowledge and skills training for the particular rating, while

"A" School Strand courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student's fleet activity destination. Strand training immediately follows Core training and is part of the "A" School. Upon completion of Core and Strand "A" Schools, graduates going to organizational level activities attend the appropriate Initial "C" School for additional specific training. Initial "C" School training is intended for students in paygrades E-4 and below. Career "C" School training is provided to organizational level personnel, E-5 and above, to enhance skills and knowledge within their field. The training covered in this document is not separated into initial and career training.

a. Interim Training. Initial basic operator and maintenance training will be accomplished during installation at each site. This installation and checkout course will focus on the Software User's Guide and On-the-Job Training (OJT) for STARS and VIDS.

(1) Operational Test and Evaluation Training. This training consisted of the DASR Site Maintenance Course with a two-week add-on. It was structured to specifically support the government's objectives for conducting OT&E.

Title	**Operational Test and Evaluation Course**
Description	This training focuses on the skills needed to conduct government OT&E.
Location	Raytheon Canada Limited, Waterloo
Length	9 weeks
RFT date	January 1999 (completed)
Prerequisites	ET 1580

(2) Installation Training. System installation training for SPAWARSYSCEN personnel will be conducted as follows:

Title	**Installation and Checkout Course**
Description	This course provides DASR installation topics, including: ° Preparation, Installation, and Checkout of the Shelter and Antenna Foundations ° Normal and Emergency Power Requirements ° Inter-Site Cabling ° Use of Technical Documents ° System Assembly and Installation ° DASR Test and Checkout ° Government-Furnished Equipment to Contractor-Furnished Equipment Interface

Location	Raytheon Canada Limited, Waterloo
Length	2 weeks
RFT date	July 2001
Prerequisites	DASR Site Maintenance Course

(3) Maintenance Training. Initial maintenance training was conducted as follows:

Title	**DASR Site Maintenance Course**
Description	This course provides the skills and knowledge required to perform both on-equipment and off-equipment organizational level maintenance on the DASR, including: ° System Operation ° Preliminary Operational Checks ° Periodic Performance Checks ° Routine Maintenance ° Replacement of Faulty Components ° Alignment Procedures ° Interpreting Diagnostic Flow Charts
Location	Raytheon Canada Limited, Waterloo
Length	7 weeks
RFT date	January 1999 (completed)
Prerequisites	° Navy: ET 1580 ° Marine Corps: MOS 5953

(4) Operator Training. Operator training for Air Traffic Controllers (AC) and Marine Corps personnel with MOS 7257 or 7291 is being accomplished using Computer-Based Training (CBT). This simulator software is provided to each site during STARS installation. The course takes approximately twelve to fourteen hours to complete and can be run on any Personal Computer with the following specifications: 486 or higher, Windows 95 or higher, 16 megabytes Random Access Memory (RAM), and a monitor with a resolution of 1024 x 768 using small fonts.

(5) Standard Terminal Automation Replacement System On-Site Operator Training. NAVAIRSYSCOM PMA205-3B1 and PMA2132 will provide for STARS on-site operator training at each activity receiving STARS. Training will utilize Computer-Based Instruction (CBI) and “ATCoach” (ATCoach is a software training program) embedded software to familiarize tower controllers in TDW functionality, facility radar controllers in

STARS/ATCoach operations, and Training Division personnel in ATCoach scenario building. Training will be provided in two phases. The first phase will occur six months prior to the activity attaining Initial Operating Capability (IOC) and will accomplish one week of training consisting of operator manual, quick reference guide, and CBI/ATCoach scenario training. The second phase will occur one month prior to the activity attaining IOC and will accomplish three weeks of formal training consisting of STARS/ATCoach operations, ATCoach scenario generation, and TDW functionality. Current calendar year 2001 training requirements have been identified as follows:

SITE	FIRST PHASE	SECOND PHASE
Naval Air Station (NAS) Oceana DET Norfolk	June 2001	November 2001
Marine Corps Air Station (MCAS) Camp Pendleton	June 2001	December 2001

For further information regarding STARS on-site operator training schedules contact NAVAIRSYSCOM PMA205-3B1 or PMA2132.

b. Follow-on Training. A training videotape and copies of all contractor training materials will be delivered to the Navy for use in course development.

(1) Operator. NATTC Pensacola trains Navy and Marine Corps Air Traffic Controllers for the fleet. The current AC "A1" and Advanced Radar Air Traffic Control (ARATC) "C" school classroom curricula will require updating as VIDS is deployed to Navy and Marine Corps ATC facilities. More importantly, the AC "A1" Tower Operator Training System (TOTS) laboratories and the ARATC "C" school laboratory will require installation of a VIDS-like Training Device (TD) to properly support training requirements. This TD must be capable of interfacing with the existing 15G31 (for ARATC) and 15G32 for AC "A1" TOTS. This installation should occur at the same time that approximately 50 percent of the Navy and Marine Corps ATC Facilities are equipped with VIDS (FY05).

Navy personnel in the AC rating and Marine Corps operators earn NEC 6901 or MOS 7257, respectively, upon completion of advanced air traffic control schools and certification to perform required tasks. When VIDS and STARS have been installed at 50 per cent of the Navy and Marine Corps ATC facilities in the fleet, both AC "A1" and ARATC courses will incorporate VIDS and STARS.

The following ATC courses are available for Navy and Marine Corps operators. These courses will be modified and stand-up when fleet ATC facilities are 50 percent operational with VIDS and STARS. Training Equipment Change Requests (TECR) #N42146-99-2546 and 2547 have been submitted, but have not been funded at this time.

(2) Maintainer. NATTC Pensacola currently has three maintenance pipelines that will become obsolete once DASR, STARS, and VIDS are deployed to the Navy and Marine Corps ATC facilities. A new DASR/STARS Maintenance pipeline and a new NEC will be established to support DASR, STARS, and VIDS training requirements. The current NECs for the AN/TPX-42A(V)5 Direct Altitude and Identity Readout (DAIR), AN/TPX-42A(V)10 Radar Air Traffic Control Facility (RATCF) DAIR, and the AN/GPN-27 Radar will be phased-out as DASR, STARS, and VIDS are installed at ATC facilities. Marine Corps personnel with MOS 5953 will attend the Navy maintenance training courses at NATTC Pensacola, as requirements dictate. A new MOS will not be required.

Title	**AN/TPX-42(V)10 RATCF DAIR Maintenance Technician Pipeline**
CIN.....	C-103-2051
Model Manager ...	NATTC Pensacola
Description	This course provides training for the Electronics Technician, including: ° Introduction to Air Traffic Control Maintenance ° Electronics Safety ° 3-M ° Air Traffic Control Systems Interface ° Microwave Devices ° Radar Theory ° Synchro/Servo Fundamentals ° Numbering Systems and Basic Logic ° Semiconductor and Digital Theory ° Memory Devices ° AN/UYX-1(V) and AN/TPX-42A(V)10 ° System Troubleshooting and Maintenance Upon completion, the student will be able to perform Air Traffic Control equipment maintenance under limited supervision.
Location	NATTC Pensacola
Length	89 days
RFT date.....	Currently available
Skill identifier.....	ET 1578
TTE/TD.....	RATCF DAIR System

Prerequisites	° A-100-0139 (Lock Step) or ° A-100-0148 (CAI), Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand “A” School

Title	**AN/TPX-42(V)5 DAIR Maintenance Technician Pipeline**
CIN.....	C-103-2053
Model Manager ...	NATTC Pensacola
Description	This course provides training for the Electronics Technician, including: ° Introduction to Air Traffic Control Maintenance ° Electronics Safety ° 3-M ° Air Traffic Control Systems Interface ° Microwave Devices ° Radar Theory ° Synchro/Servo Fundamentals ° Numbering Systems and Basic Logic ° Semiconductor and Digital Theory ° Memory Devices ° AN/UYX-1(V) and AN/TPX-42A(V)5 ° System Troubleshooting and Maintenance Upon completion, the student will be able to perform Air Traffic Control equipment maintenance under limited supervision.
Location	NATTC Pensacola
Length	78 days
RFT date.....	Currently available
Skill identifier.....	ET 1574
TTE/TD.....	Basic DAIR System
Prerequisites	° A-100-0139 (Lock Step) or ° A-100-0148 (CAI), Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand “A” School

Title	**AN/GPN-27 Radar Maintenance Technician Pipeline**
CIN.....	C-103-2060
Model Manager ...	NATTC Pensacola
Description	This course provides training for the Electronics Technician, including: ° AN/GPN-27 ASR System Maintenance ° Use and Operation of Test Equipment ° Alignment and Adjustment ° System Alarm and Fault Logic Circuits ° Command Processor and Memory ° Controller Circuits ° Transmitter ° Normal and Moving Target Indicator Video Receiver ° Receiver and Video Processor ° Planned Position Indicator Maintenance ° Remote Site Equipment ° Power Supplies ° Antenna and Waveguide System Upon completion, the student will be able to perform the duties of an AN/GPN-27 Radar Maintenance Technician under limited supervision.
Location	NATTC Pensacola
Length	101 days
RFT date.....	Currently available
Skill identifier.....	ET 1580
TTE/TD.....	AN/GPN-27 Radar System
Prerequisites	° A-100-0139 (Lock Step) or ° A-100-0148 (CAI), Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand “A” School

Title	**Marine Air Traffic Control Radar Technician Pipeline**
CIN.....	C-103-2080
Model Manager ...	NATTC Pensacola
Description	This course provides training for the Electronics Technician, including: ° Miniature Component Repair ° Initialization and Analysis ° Electronic Theory and Technology ° Analog and Digital Circuit Analysis ° Maintenance, Safety, and Troubleshooting Procedures ° AN/TPN-22 Precision Approach Radar System ° AN/UYQ-34(V) Processor Display System ° AN/TSQ-131(V) System ° AN/TPS-73 ASR System Upon completion, the student will be able to perform the duties of a Marine Air Traffic Control Radar Technician under limited supervision.
Location	NATTC Pensacola
Length	247 days
RFT date.....	Currently available
Skill identifier.....	MOS 5953
TTE/TD.....	NA
Prerequisite.....	C-100-2019, Marine Air Traffic Control Basic Technician

Note: VIDS and STARS will be used as TTE for the VIDS and STARS maintenance course that replaces the DAIR and RATCF courses. STARS TTE will be installed starting in OCT 2001 for the first system and in CY05 for the second system. VIDS TTE (2 systems) is planned to be installed at NATTC Pensacola in FEB 2002.

Title	**Air Traffic Controller**
CIN.....	C-222-2010
Model Manager ...	NATTC Pensacola
Description	This course provides Navy and Marine Corps personnel with the basic tower and radar control technical knowledge and skills to meet FAA requirements and certification, including: ° Basic Simulated Operational Application Experiences ° FAA Certification Study Material ° Control Tower Operations ° Terminal Radar Procedures ° Base Operations Upon completion, the student will have the knowledge to perform as an apprentice Air Traffic Controller in a base operations, control tower, or terminal radar environment.
Location	NATTC Pensacola
Length	110 days
RFT date.....	Currently available
Skill identifier.....	None
TTE/TD.....	VIDS-like TDs are necessary in the Radar II, Radar III, and TOTS laboratories, capable of interfacing with the existing 15G32 TD. TECR #N42146-99-2547 for TOTS laboratories was submitted in August 1999 and remains unfunded. TECRs for Radar Laboratories are under development and unfunded. STARS-like TDs are necessary in the Radar II, Radar III, and TOTS laboratories, capable of interfacing with the existing 15G32 TD. TECRs are under development and unfunded. ETVS-like TDs are necessary in the Radar II, Radar III, and TOTS laboratories, capable of interfacing with the existing 15G32 TD. TECRs are under development and unfunded. Scenarios utilized in the Radar II and Radar III laboratories will require review to ensure all project similar DASR/ STARS type target and weather returns.

Prerequisites	° Must be medically fit in accordance with Standard Form 88 and NAVMED 6410/2. ° Security Clearance: Marine Corps personnel must be eligible for Secret.
Title	**Advanced Radar Air Traffic Control**
CIN.....	C-222-2022
Model Manager ...	NATTC Pensacola
Description	This course is designed to provide Navy and Marine Corps journeyman-level Air Traffic Controllers with advanced instruction in terminal radar approach control procedures, including technical knowledge and practical application. Hands-on training is provided on Arrival Control, Departure Control, and Approach Control operating positions. This course will provide the student with the training necessary to function effectively in a radar approach control facility. All students will be required to demonstrate a knowledge of procedures, phraseology, and equipment encountered in the typical approach control environment. Training includes: ° Advanced Classroom and Laboratory Instruction in Airspace Management ° Fleet Area Control and Surveillance Facility (FACSFAC) ° Naval Air Traffic Control Air Navigation Aids and Landing System (NAALS) ° Air Installation Compatible Use Zone (AICUZ) ° OD-58 Indicator/DAIR Indoctrination ° Radar/Non-Radar Rules, Regulations, and Application Upon completion, the student will be able to perform the duties of an Air Traffic Control Specialist.
Location	NATTC Pensacola
Length	26 days
RFT date.....	Currently available
Skill identifier.....	° AC 6901 ° MOS 7257

TTE/TD..... A VIDS-like TD is necessary in the ARATC "C" school laboratory, capable of interfacing with the existing 15G31 TD. TECR #N42146-99-2546 was submitted in August 1999 and remains unfunded. A STARS simulator will be used as TD.

Prerequisites..... ° C-222-2010, Air Traffic Controller
° Individual must possess a NAVMED 6410/2 Clearance
° Marine Corps personnel must be eligible for a Secret clearance

c. Student Profiles

SKILL IDENTIFIER	**PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS**
AC 6901	° C-222-2010, Air Traffic Controller
ET 1574, 1578, 1580	° A-100-0139 (Lock Step) or ° A-100-0148 (CAI), Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand "A" School
MOS 5953	° C-100-2020, Avionics Common Core Class A1 ° C-100-2019, Marine Air Traffic Control Basic Technician ° C-103-2026, Miniature Component Repair ° C-103-2080, Marine Air Traffic Control Radar Technician Pipeline ° C-103-2072, Marine Air Traffic Control Technician Common Core Course
MOS 7257	° C-222-2010, Air Traffic Controller

d. Training Pipeline

Title	**DASR/STARS Maintenance Technician Pipeline**
CIN	C-103-2069
Model Manager ..	NATTC Pensacola
Description	This pipeline provides training in the maintenance of the DASR and the STARS. The pipeline will consist of the following courses: ° C-103-2045, Air Traffic Control Maintenance Preparatory ° C-103-2018, DASR Maintenance ° C-103-2025, STARS Maintenance
Location	NATTC Pensacola
Length	110 days
RFT date	October 2002
Skill identifier	ET 1517
TTE/TD	DASR will be installed in FY02.
Prerequisites.....	° A-100-0139 (Lock Step) or ° A-100-0148 (CAI), Advanced Electronics Technical Core ° A-100-0147, ET Radar Strand “A” School

Air Traffic Control Maintenance Preparatory (C-103-2045) course conversion to CBT will include LAN, WAN UNIX, and OS training to provide prerequisite skills needed to maintain NAS Mod equipment.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. Current planning is to adopt the Aviation Maintenance Training Continuum System (AMTCS) concepts to replace Maintenance Training Improvement Program (MTIP). AMTCS is scheduled to begin full implementation for fleet deployment in Fiscal Year (FY) 01.

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their

military career. AMTCS concepts will provide an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Interactive Multimedia Instruction (IMI) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and Computer Aided Instruction (CAI) for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module, which provides testing [Test and Evaluation], recording [Electronic Certification Qualification Records], and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List data bank. These tools are procured and fielded with appropriate Commercial-Off-The-Shelf (COTS) hardware and software, i.e., Fleet Training Devices - Laptops, PCs, Electronic Classrooms, Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), AMTCS concepts are to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBERS	MANUFACTURER	ADDRESS
° F19628-96-D-0038 ° DTFA01-96-D-03008	Raytheon Company Electronic Systems	1001 Boston Post Road Marlboro, MA 01752-3789

2. Program Documentation. NA

3. Technical Data Plan. The contractor will design technical manuals that provide the full range and depth of coverage to support the NAS Mod components. The Operations and Maintenance Manual will describe the integration of all NDI and COTS equipment into a single

system. The Field Installation Manual will provide the procedures and information required for non-turnkey installation by SPAWARSYSCEN personnel at all Navy and Marine Corps facilities. Two sets of these manuals (paper and CD-ROM) will be delivered with each system along with one set of commercial manuals for all NDI and COTS equipment used. The Planned Maintenance System for DASR/VIDS will be developed by SPAWARSYSCEN and will consist of Maintenance Index Pages and Maintenance Requirements Cards. Naval Air Warfare Center Aircraft Division (NAWCAD) St. Inigoes will develop the Planned Maintenance System for STARS.

4. Test Sets, Tools, and Test Equipment. A Lifting Beam and a Tilting Adjuster manufactured by Cossor Electronics Limited are both required for removal and tilt adjustment of the Secondary Surveillance Radar Antenna. Currently, the FAA plans to procure only one of each and to store these items at the FAA Logistics Center in Oklahoma City. This will require the DASR sites to requisition this equipment each time it is needed. Due to Navy peculiar requirements, it may be necessary to purchase two subsets of this equipment so that the Navy can retain one subset on each coast. There is also a Monopulse Beacon Test Set that is being acquired for the purpose of certifying the Monopulse Secondary Surveillance Radar for operation in the National Airspace System. Acquisition of the Monopulse Beacon Test Set is still under contract. Refer to element IV.A.1 for further information.

5. Repair Parts. STARS onboard critical item spares will be provided during installation. Interim supply support will be provided by Raytheon at Norfolk, Virginia. NAWCAD St. Inigoes will ensure repair part support and initial, interim, and follow-on secondary item spares are budgeted. A Material Support Date (MSD) for each NAS Mod component will be established, and supply support will transition to the Naval Inventory Control Point, Mechanicsburg, Pennsylvania.

6. Human Systems Integration. Since the NAS Mod components are an NDI, modified COTS acquisition, it will be difficult to change the current design of the system. Human Systems Integration will be utilized during evaluation of current facilities and new construction to take into account human engineering and equipment accessibility, and provide working clearance and space as required by safety regulations.

K. SCHEDULES

1. Installation and Delivery Schedules. The installation schedule below shows either completed or proposed dates. Proposed dates may change based on design changes and equipment availability. NATTC Pensacola will receive two STARS, DASR, and VIDS systems for training purposes.

LOCATION	STARS	DASR	VIDS
NAWC St. Inigoes (OSF)	1999	NA	NA

LOCATION	STARS	DASR	VIDS
NATTC Pensacola (1)	2001	2002	2002
NATTC Pensacola (2)	2005	2005	2002
SPAWARSYSCEN	2001	2002	2000
NAS Meridian	NA	2007	2007
NAS Norfolk	2001	NA	2002
NAS Norfolk (Helo)	NA	NA	2002
MCAS Camp Pendleton	2001	NA	2002
NAS Oceana	2002	2002	2002
NAS Pensacola	2004	2004	2004
NAS JRB Fort Worth	2012	2012	2012
NAS Willow Grove	2002	2002	2002
MCAF Kaneohe Bay	2002	2002	2002
NAS Whidbey Island	2002	2002	2002
NAS Patuxent River	2002	2002	2002
MCAS Beaufort	2002	2002	2002
NALF San Clemente Island	2002	2002	2002
NAS Kingsville	2004	2004	2004
NALF Orange Grove	NA	NA	2004
NAS Whiting Field	2004	2004	2004
MCAS Iwakuni	2008	2008	2008
NAS Corpus Christi	2006	2006	2006
NAS Lemoore	2004	2004	2004
NAS North Island	2008	2008	2008
NOLF Imperial Beach	2008	NA	2008
NALF Cabaniss	2006	NA	2006
NALF Waldron	2006	NA	2006
NOLF Choctaw	2004	NA	2004
MCAS Cherry Point	2003	2003	2003

LOCATION	STARS	DASR	VIDS
MCAS New River	2003	2003	2003
NAS Jacksonville	2003	2003	2003
NAS New Orleans	2009	2009	2009
MCAS Yuma	2006	2006	2006
MCAS Miramar	2005	NA	2005
NOLF Joe Williams (Bravo)	2007	NA	2007
NOLF Whitehouse	NA	NA	NA
NALF Webster	NA	NA	2002
NAS Fallon	2006	2006	2006
NAVBASE Ventura County	2004	2004	2004
NAS Brunswick	2005	2005	2005
NAS Key West	2004	2004	2004
MCAS Futenma	2012	2012	2012
NAVSTA Mayport	2011	2011	2011
NS Roosevelt Roads	2010	2010	2010
MCAF Quantico	2010	2010	2010
NAVSTA Rota	2003	2003	2003
NAS Keflavik	2010	2010	2010
NOLF San Nicolas Island	NA	NA	2004
NAS El Centro	2009	2009	2009
PMRF Barking Sands	NA	NA	2004
NSF Diego Garcia	NA	NA	2005
NAVSTA Guantanamo Bay	NA	NA	NA
NAWC Lakehurst	NA	NA	2003
NAWS China Lake	2003	NA	2003

2. Ready For Operational Use Schedule. The NAS Mod Components will be ready for operational use after successful installation, test, and certification by the installation

crew. The air station ATC Operations Department will witness test and certification procedures where possible.

3. Time Required to Install at Operational Sites. Installation of the DASR is currently planned to be in conjunction with the installation of the STARS and the VIDS. Time required for completion of the DASR installation will be between 34 and 54 days per site. STARS systems will be installed in conjunction with DASR systems beginning in FY02. Installing the two systems together eliminates disrupting facility operations more than once for each system installation. SPAWARSYSCEN Charleston estimates the installation process will take five months. This includes setting up temporary ATC facilities if required, installing STARS and DASR, and the initial test and check of the new systems. Installation at each site will be accomplished via one of three methods listed below:

(1) First Method. The concurrent approach method involves the installation of replacement systems side-by-side with the existing operational equipment. This method allows the current ATC equipment to remain fully operational while the new equipment is being installed and tested. It requires sufficient floor space available for parallel equipment installation, sufficient power for existing and replacement equipment, and sufficient Heating, Ventilation, and Air Conditioning (HVAC) capacity for existing and replacement equipment. Upon successful installation, test, and certification of the new equipment the facility transitions over to the new system for operational use, and the old systems are removed.

(2) Second Method. The Marine Air Control Squadron (MACS) approach can be used when the concurrent approach method is not feasible due to facility space limitations. The MACS unit deploys to the airfield being upgraded and sets up mobile ATC equipment. Once the MACS is operational, control of all ATC operations is transferred to the MACS, and the old equipment is shut down for removal and replacement. MACS requirements include six months advanced scheduling; ample telephone landline circuits available at the MACS site; and messing, berthing, and transportation for MACS operators and maintainers. Requirements also include a letter of agreement between the MACS and Air Station-Air Operations, accurate field data in advance for the efficient setup and generation of video maps, and time for station controllers to train on MACS equipment and familiarize MACS controllers with local operations. Upon successful installation, test, and certification of the new equipment, the facility transitions over to the new system for operational use.

(3) Third Method. The Transportable Air Traffic Control Facility (TATCF) Approach can be utilized when the concurrent approach is not technically feasible and no MACS unit is available. This approach involves the construction of mobile trailers with standard Navy ATC processing, display, communications control, and ancillary equipment. After the TATCF is set up, tested, and certified at an air station, control of the radar operations will be turned over to the TATCF and the old radar facility equipment will be removed and replaced with the new system. Requirements include construction of two sets of TATCF trailers, each with a full complement of standard Navy ATC systems, sitting close to the existing facility, with sufficient power for the trailers. The TATCF will interface with the existing Precision

Approach Radar, ASR, radios, and telephone landline circuits. Following successful testing and certification of the new systems, control is transferred back to the new equipment in the RATCF and ATC Tower.

4. Foreign Military Sales and Other Source Delivery Schedule. For Air Force, Army, or FAA delivery schedules contact the Developing Agency, NAVAIRSYSCOM, PMA213.

5. Training Device and Technical Training Equipment Delivery Schedule

(1) Maintenance Training. Two AN/FSQ-204 STARS systems will be delivered to NATTC Pensacola to support maintenance training. One system will be installed in CY01 and the second in CY05. Coordination between the NATTC Project Manager and SPAWARSYSCEN Charleston is required for relocation of AN/FSC-104 ECS radio antennas to ensure proper maintenance course lab space for STARS equipment. Two DASR systems will be installed at NATTC Pensacola. The first will be Ready For Operational Use (RFOU) in March 2002 and the second will be RFOU in August 2005. These systems will be the primary TTE. Two VIDS Systems to be utilized as TTE will be installed at NATTC Pensacola in FEB 2002.

(2) Operator Training. Training Device 15G31 Shore-based Radar ATC Training Systems supporting AC "A1" laboratories and ARATC "C" laboratory instruction must be modified to replicate STARS operations. This modification will be developed by Naval Air Warfare Center Training Systems Division (NAWC TSD) Orlando, Florida, and will be in place when 50 percent of the Navy and Marine Corps STARS installations are complete (FY05). A VIDS-like TD for the AC "A1" TOTS laboratories and the ARATC "C" school laboratory should occur at the time that 50 percent of Navy and Marine Corps ATC facilities are equipped with VIDS (FY05). No new training devices will be required to support the DASR training.

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Statement of Operational Need	USAF SON 001-85	Air Force	Approved 11 Jun 87
Operational Requirements Document	USAF ORD 04-87	Air Force	Approved 14 May 92

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Naval and Marine Corps Air Traffic Control Facility Transition Program	NA	SPAWARSYSCOM Code 313	Approved Dec 96
DASR Integrated Logistics Support Plan	ATC-ILSP-011	SPAWARSYSCOM	Approved Jul 98
STARS Phase II Operational Requirements Document (ORD)	NA	Joint Program Office (JPO)	Approved 18 Jun 95
U.S. Department of Transportation FAA and DoD STARS Phase III (Final) ORD	NA	Joint Program Office (JPO)	Approved 30 May 96
DoD Air Traffic Control and Landing Systems in the National Airspace System Phase III (Final) ORD	HQ AFFSA 04-87	Joint Program Office (JPO)	Draft 6 Jul 00
AN/GPN-27 Airport Surveillance Radar	N-88-NTSP-A-50-7902/A	PMA213	Approved 28 Sep 89
AN/TPX-42A(V)5/10	N-88-NTSP-E-50-7005F/A	PMA205	Approved 6 Jan 94
Enhanced Terminal Voice Switch (ETVS)	N-88-NTSP-A-50-9701/A	PMA205	Approved Apr 99

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the National Airspace System Modernization Program and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

Note: Electronics Technician (ET) manpower requirements for NAS Lemoore and NAVBASE Ventura County (formally NAS Point Mugu) have been transitioned to DoD contracted maintenance and are not address in this NTSP.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE OF USN BILLETS: Total Force Manpower Management System **DATE:** 3/1/00
SOURCE OF USMC BILLETS: Extract from Table of Manpower Requirements, TFS, MCCDC **DATE:** 3/1/00

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
FLEET SUPPORT ACTIVITIES - NAVY							
Atlantic Fleet Weapons Training Facility	0017A	1	0	0	0	0	0
FACSFAC Jacksonville	53895	1	0	0	0	0	0
FACSFACVACAPES	42239	1	0	0	0	0	0
NAF Washington DC	00166	1	0	0	0	0	0
NAS Brunswick	60087	1	0	0	0	0	0
NAS Jacksonville	00207	1	0	0	0	0	0
NAS Keflavik	63032	1	0	0	0	0	0
NAS Key West	00213	1	0	0	0	0	0
NAS New Orleans	00206	1	0	0	0	0	0
NAS Oceana	60191	1	0	0	0	0	0
NAS Oceana Air Detachment	00188	1	0	0	0	0	0
NAS Whiting Field, Undergraduate Pilot Training	42096	1	0	0	0	0	0
NAS Willow Grove	00158	1	0	0	0	0	0
Naval Test Pilot School, Patuxent River	44689	1	0	0	0	0	0
NAVSTA Mayport	60201	1	0	0	0	0	0
NAVSTA Roosevelt Roads	00389	1	0	0	0	0	0
NAVSTA Rota	62863	1	0	0	0	0	0
NAWCAD Patuxent River	47608	1	0	0	0	0	0
NAWCADIV NWCF	64485	1	0	0	0	0	0
OPNAV	00011	1	0	0	0	0	0
SSC SC NWCF	65236	1	0	0	0	0	0
CPRFP NAVSUPDET	32405	1	0	0	0	0	0
FACSFAC Pearl	43583	1	0	0	0	0	0
FACSFAC San Diego	09528	1	0	0	0	0	0
NAF Atsugi	62507	1	0	0	0	0	0
NAS Corpus Christi, Undergraduate Pilot Training	42094	1	0	0	0	0	0
NAS Fallon	60495	1	0	0	0	0	0
NAS JRB Fort Worth	83447	1	0	0	0	0	0
NAS Kingsville, Undergraduate Pilot Training	42095	1	0	0	0	0	0
NAS Lemoore	63042	1	0	0	0	0	0
NAS North Island	00246	1	0	0	0	0	0
NAS North Island, San Clemente Island	31466	1	0	0	0	0	0
NAVBASE Ventura County	0429A	1	0	0	0	0	0
NAVBASE Ventura County A/C	45113	1	0	0	0	0	0
NAS Whidbey Island	00620	1	0	0	0	0	0
NOLF San Nicholas Island, NAWS	30614	1	0	0	0	0	0
NSUPFAC Diego Garcia	68539	1	0	0	0	0	0
TOTAL:		37	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE OF USN BILLETS: Total Force Manpower Management System **DATE:** 3/1/00
SOURCE OF USMC BILLETS: Extract from Table of Manpower Requirements, TFS, MCCDC **DATE:** 3/1/00

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
FLEET SUPPORT ACTIVITIES - USMC							
COMCAB, Cherry Point	67358	1	0	0	0	0	0
H&HS MCAF Quantico	00262	1	0	0	0	0	0
H&HS MCAS Beaufort	60169	1	0	0	0	0	0
H&HS MCAS Cherry Point	00146	1	0	0	0	0	0
H&HS MCAS New River	62573	1	0	0	0	0	0
MACS-2 HQ, Cherry Point	09554	1	0	0	0	0	0
MACS-2, ATC Det-A, Beaufort	09274	1	0	0	0	0	0
MACS-2, ATC Det-B, New River	09554	1	0	0	0	0	0
MACS-2, ATC Det-C, Cherry Point	57080	1	0	0	0	0	0
MACS-2, ATC Det-D, Bouge Field	53980	1	0	0	0	0	0
MACS-24 HQ, Dam Neck	08854	1	0	0	0	0	0
MACS-24, Det-B, Willow Grove	09504	1	0	0	0	0	0
MAD, Patuxent River	67356	1	0	0	0	0	0
PERS MGT DIV HQMC	00000	1	0	0	0	0	0
COMCAB Miramar	67428	1	0	0	0	0	0
H&HS MCAS Camp Pendleton	67604	1	0	0	0	0	0
H&HS MCAS Futenma	63026	1	0	0	0	0	0
H&HS MCAS Iwakuni	62613	1	0	0	0	0	0
H&HS MCAS Miramar	31200	1	0	0	0	0	0
H&HS MCAS Yuma	62974	1	0	0	0	0	0
MACS-1 HQ, Yuma	09541	1	0	0	0	0	0
MACS-1, ATC Det-A, Camp Pendleton	31053	1	0	0	0	0	0
MACS-1, ATC Det-B, Miramar	46623	1	0	0	0	0	0
MACS-1, ATC Det-C, Yuma	31055	1	0	0	0	0	0
MACS-1, ATC Det-D, Twenty Nine Palms	31053	1	0	0	0	0	0
MACS-23 HQ, Aurora	67834	1	0	0	0	0	0
MACS-24, ATC Det-A, Fort Worth	55175	1	0	0	0	0	0
MACS-4 HQ, Futenma	08848	1	0	0	0	0	0
MACS-4, ATC Det-A, Iwakuni	09249	1	0	0	0	0	0
MACS-4, ATC Det-B, Futenma	62613	1	0	0	0	0	0
MAWTS-1, Yuma	55167	1	0	0	0	0	0
MCAF Kaneohe Bay	00318	1	0	0	0	0	0
TOTAL:		32	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FLEET SUPPORT ACTIVITIES - NAVY					
Atlantic Fleet Weapons Training Facility, 0017A					
ACDU	0	2	ACC	6901	
	0	4	AC1	6901	
	0	6	AC2	6901	
	0	9	AC3	6901	
	0	1	ET1	1580	
ACTIVITY TOTAL:	0	22			
FACSFAC Jacksonville, 53895					
ACDU	0	2	ACC	6901	
	0	3	AC1	6901	
	0	5	AC2	6901	
ACTIVITY TOTAL:	0	10			
FACSFACVACAPES, 42239					
ACDU	0	2	ACC	6901	
	0	3	AC1	6901	
	0	8	AC2	6901	
ACTIVITY TOTAL:	0	13			
NAF Washington DC, 00166					
ACDU	0	2	ACC	6901	
ACTIVITY TOTAL:	0	2			
NAS Brunswick, 60087					
ACDU	0	1	ACCS	6904	6901
	0	3	ACC	6904	6901
	0	13	AC1	6901	
	0	1	ETC	1578	1580
	0	1	ET1	1578	1580
	0	1	ET2	1578	1580
	0	1	ET2	1578	9527
	0	1	ET2	1580	9527
	0	1	ET3	1580	
ACTIVITY TOTAL:	0	23			
NAS Jacksonville, 00207					
ACDU	0	1	ACCS	6901	6902
	0	2	ACC	6901	6902
	0	2	AC1	6901	
	0	20	AC1	6901	6902

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACDU	0	2	AC2	6901	
	0	18	AC2	6901	6902
	0	1	AC3	6901	
	0	10	AC3	6901	6902
	0	1	ETC	1579	1580
	0	1	ET1	1471	1574
	0	1	ET1	1574	
	0	1	ET1	1579	1580
	0	1	ET1	1580	1574
	0	1	ET2	1574	1580
	0	1	ET2	1574	9527
	0	2	ET2	1579	1580
ACTIVITY TOTAL:	0	65			
NAS Keflavik, 63032					
ACDU	0	1	ACC	6901	6904
	0	4	AC1	6901	
	0	1	AC2	6901	
SELRES	0	1	ACC	6901	
	0	2	AC1	6901	
	0	2	AC2	6901	
	0	1	ETC	1580	
	0	2	ET2	1580	
ACTIVITY TOTAL:	0	14			
NAS Key West, 00213					
ACDU	0	1	ACCS	6901	
	0	2	ACC	6901	
	0	16	AC1	6901	
	0	1	AC1	6901	9527
	0	17	AC2	6901	
	0	1	ETC	1580	1579
	0	1	ET1	1578	
	0	5	ET2	1578	9527
	0	4	ET2	1580	
	0	1	ET3	1578	
	0	2	ET3	1580	9527
ACTIVITY TOTAL:	0	51			
NAS New Orleans, 00206					
ACDU	0	1	ETC	1574	1579
	0	1	ET1	1579	1574
	0	1	ET1	1580	1570
	0	1	ET2	1574	1580

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SELRES	0	1	ET1	1580	
	0	1	ET2	1574	1579
ACTIVITY TOTAL:	0	6			
NAS Oceana, 60191					
ACDU	0	1	ACCM	6901	
	0	1	ACCS	6901	
	0	3	ACC	6901	
	0	27	AC1	6901	
	0	27	AC2	6901	
	0	1	AC3	6901	
	0	1	ET1	1480	1578
	0	1	ET1	1578	1570
	0	1	ET2	1578	
	0	1	ET2	1580	
	0	1	ET2	1580	9526
	0	2	ET3	1578	
	0	1	ET3	1580	
ACTIVITY TOTAL:	0	68			
NAS Oceana Air Detachment, 00188					
ACDU	0	1	ETC	1574	
	0	2	ET1	1574	
	0	4	ET2	1574	1579
	0	1	ET2	1574	9526
ACTIVITY TOTAL:	0	8			
NAS Whiting Field, Undergraduate Pilot Training, 42096					
ACDU	0	1	ET2	1579	1574
	0	1	ET3	1574	
	0	1	ET3	1580	9527
ACTIVITY TOTAL:	0	3			
NAS Willow Grove, 00158					
ACDU	0	1	ETC	1574	1579
	0	1	ET1	1579	1574
	0	1	ET2	1579	1574
TAR	0	1	ET1	1579	1580
	0	1	ET2	1579	1580
ACTIVITY TOTAL:	0	5			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
Naval Test Pilot School, Patuxent River, 44689					
ACDU	0	2	ACC	6901	
ACTIVITY TOTAL:	0	2			
NAVSTA Mayport, 60201					
ACDU	0	1	ETC	1580	1574
	0	1	ET1	1574	1480
	0	1	ET1	1580	1480
	0	3	ET2	1580	1480
	0	1	ET3	1574	1480
	0	2	ET3	1580	1480
SELRES	0	1	ET1	1580	
	0	3	ET2	1580	
ACTIVITY TOTAL:	0	13			
NAVSTA Roosevelt Roads, 00389					
ACDU	0	1	ACCM	6901	
	0	3	ACC	6901	
	0	10	AC1	6901	
	0	11	AC2	6901	
	0	1	ET2	1578	9527
	0	2	ET2	1580	
	0	1	ET3	1578	
	0	1	ET3	1580	9527
TAR	0	1	AC1	6901	
	0	1	ET1	1578	
ACTIVITY TOTAL:	0	32			
NAVSTA Rota, 62863					
ACDU	0	1	ACC	6901	
	0	6	AC1	6901	
	0	1	ET1	1580	1579
	0	1	ET2	1574	9527
	0	1	ET3	1579	1580
	0	1	ET3	1580	9597
NAVSTA Rota, 62863, FY00 Increment					
ACDU	0	1	ET3	4749	1580
ACTIVITY TOTAL:	0	12			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAWCAD Patuxent River, 47608					
ACDU	0	1	ACCS	6901	
	0	4	ACC	6901	
	0	8	AC1	6901	
	0	8	AC2	6901	
	0	1	ET1	1578	
	0	1	ET1	1580	
	0	1	ET2	1578	
	0	1	ET2	1578	9527
	0	1	ET2	1580	
	0	1	ET2	1580	1480
	0	2	ET3	1578	
	0	1	ET3	1580	9527
ACTIVITY TOTAL:	0	30			
NAWCADIV NWCF, 64485					
ACDU	0	1	ACC	6901	
NAWCADIV NWCF, 64485, FY00 Increment					
ACDU	0	1	ACC	6902	6901
ACTIVITY TOTAL:	0	2			
OPNAV, 00011					
ACDU	0	2	ACC	6901	
ACTIVITY TOTAL:	0	2			
SSC SC NWCF, 65236					
ACDU	0	1	ACC	6901	
ACTIVITY TOTAL:	0	1			
CPRFP NAVSUPDET, 32405					
ACDU	0	1	ACCS	6901	
	0	2	ACC	6901	
	0	6	AC1	6901	
	0	9	AC2	6901	
ACTIVITY TOTAL:	0	18			
FACSFAC Pearl, 43583					
ACDU	0	1	ACC	6901	
	0	3	AC1	6901	
ACTIVITY TOTAL:	0	4			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FACSFAC San Diego, 09528					
ACDU	0	2	ACC	6901	
	0	6	AC1	6901	
	0	6	AC2	6901	
ACTIVITY TOTAL:	0	14			
NAF Atsugi, 62507					
ACDU	0	1	AC1	6901	
	0	2	AC2	6901	
	0	2	AC3	6901	
SELRES	0	1	AC1	6901	
	0	6	AC2	6901	
	0	1	AC3	6901	
ACTIVITY TOTAL:	0	13			
NAS Corpus Christi, Undergraduate Pilot Training, 42094					
ACDU	0	1	ET1	1579	1574
	0	4	ET2	1579	1574
ACTIVITY TOTAL:	0	5			
NAS Fallon, 60495					
ACDU	0	1	ACCM	6901	
	0	1	ACCS	6901	
	0	3	ACC	6901	
	0	15	AC1	6901	
	0	12	AC2	6901	
ACTIVITY TOTAL:	0	32			
NAS JRB Fort Worth, 83447					
ACDU	0	1	ETC	1574	1580
	0	1	ET1	1580	1570
TAR	0	1	ET1	1574	
	0	1	ET1	1579	1574
	0	1	ET2	1580	
ACTIVITY TOTAL:	0	5			
NAS Kingsville, Undergraduate Pilot Training, 42095					
ACDU	0	1	ACCS	6901	
	0	3	ACC	6901	
	0	15	AC1	6901	
	0	1	ETC	1578	
	0	2	ET1	1580	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
		0	4	ET2	1578
ACTIVITY TOTAL:	0	26			
NAS Lemoore, 63042					
ACDU	0	1	ACCM	6901	6902
	0	1	ACCS	6901	
	0	2	ACC	6901	
	0	10	AC1	6901	
	0	15	AC2	6901	
ACTIVITY TOTAL:	0	29			
NAS North Island, 00246					
ACDU	0	3	ACC	6901	
	0	5	AC1	6901	
	0	5	AC2	6901	
	0	1	ET1	1578	
	0	1	ET2	1578	9527
	0	3	ET2	1580	
ACTIVITY TOTAL:	0	18			
NAS North Island, San Clemente Island, 31466					
ACDU	0	3	AC1	6901	
	0	2	AC2	6901	
	0	1	ET1	1579	1580
	0	2	ET2	1502	1574
	0	1	ET3	1480	1580
	0	1	ET3	1574	1580
	0	1	ET3	1580	9527
ACTIVITY TOTAL:	0	11			
NAVBASE Ventura County, 0429A					
ACDU	0	5	ACC	6901	
	0	12	AC1	6901	
	0	5	AC2	6901	
ACTIVITY TOTAL:	0	22			
NAVBASE Ventura County A/C, 45113					
ACDU	0	1	AC1	6901	
	0	4	AC2	6901	
ACTIVITY TOTAL:	0	5			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAS Whidbey Island, 00620					
ACDU	0	1	ACCM	6901	
	0	1	ACCS	6901	
	0	6	ACC	6901	
	0	15	AC1	6901	
	0	16	AC2	6901	
	0	1	ETC	1580	
	0	1	ET1	1578	
	0	1	ET2	1578	9527
	0	1	ET2	1580	1480
	0	1	ET3	1580	9527
NAS Whidbey Island, 00620, FY01 Increment					
ACDU	0	1	ACCS	6901	6904
ACTIVITY TOTAL:	0	45			
NOLF San Nicholas Island, NAWS, 30614					
ACDU	0	1	ETC	1574	
ACTIVITY TOTAL:	0	1			
NSUPFAC Diego Garcia, 68539					
ACDU	0	3	AC1	6901	
ACTIVITY TOTAL:	0	3			
FLEET SUPPORT ACTIVITIES - USMC					
COMCAB, Cherry Point, 67358					
USMC	0	1	MSGT	7291	
	0	1	SSGT	7257	
ACTIVITY TOTAL:	0	2			
H&HS MCAF Quantico, 00262					
USMC	0	1	CPL	5953	
	0	2	CPL	7257	7252
	0	4	CPL	7257	7253
	0	1	GYSGT	7257	
	0	2	LCPL	5953	
	0	5	LCPL	7257	7252
	0	5	LCPL	7257	7253
	0	2	SGT	7257	7252
	0	2	SGT	7257	7253
	0	2	SSGT	7257	
ACTIVITY TOTAL:	0	26			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
H&HS MCAS Beaufort, 60169					
USMC	0	1	CPL	5953	
	0	3	CPL	7257	7252
	0	2	CPL	7257	7253
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	5	LCPL	7257	7252
	0	8	LCPL	7257	7253
	0	1	MSGT	7291	
	0	2	SGT	7257	7252
	0	2	SGT	7257	7253
	0	1	SSGT	5953	
	0	4	SSGT	7257	
ACTIVITY TOTAL:	0	36			
H&HS MCAS Cherry Point, 00146					
USMC	0	1	CPL	5953	
	0	2	CPL	7257	7252
	0	4	CPL	7257	7253
	0	2	GYSGT	7257	
	0	2	LCPL	5953	
	0	3	LCPL	7257	7252
	0	5	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	5	SGT	7257	7254
	0	1	SSGT	5953	
	0	8	SSGT	7257	
ACTIVITY TOTAL:	0	37			
H&HS MCAS New River, 62573					
USMC	0	1	CPL	5953	
	0	3	CPL	7257	7252
	0	1	CPL	7257	7253
	0	3	GYSGT	7257	
	0	3	LCPL	5953	
	0	8	LCPL	7257	7252
	0	2	LCPL	7257	7253
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	2	SGT	7257	7253
	0	1	SSGT	5953	
	0	6	SSGT	7257	
ACTIVITY TOTAL:	0	33			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MACS-2 HQ, Cherry Point, 09554					
USMC	0	1	MGYSGT	7291	
	0	1	MSGT	7291	
	0	1	SGT	5953	
ACTIVITY TOTAL:	0	3			
MACS-2, ATC Det-A, Beaufort, 09274					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-2, ATC Det-B, New River, 09554					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-2, ATC Det-C, Cherry Point, 57080					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-2, ATC Det-D, Bouge Field, 53980					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-24 HQ, Dam Neck, 08854					
SMCR	0	1	GYSGT	7257	
	0	1	LCPL	5953	
	0	1	MGYSGT	7291	
	0	1	SGT	5953	
ACTIVITY TOTAL:	0	4			
MACS-24, Det-B, Willow Grove, 09504					
USMC	0	1	GYSGT	5953	
	0	1	GYSGT	7257	
	0	1	SGT	5953	
	0	1	SSGT	5953	
	0	1	SSGT	7257	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SMCR	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	1	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	2	SSGT	7257	
ACTIVITY TOTAL:	0	40			
MAD, Patuxent River, 67356					
USMC	0	1	GYSGT	5953	
ACTIVITY TOTAL:	0	1			
PERS MGT DIV HQMC, 00000					
USMC	0	1	MGYSGT	7291	
ACTIVITY TOTAL:	0	1			
COMCAB Miramar, 67428					
USMC	0	1	MSGT	7291	
	0	1	SSGT	7257	
ACTIVITY TOTAL:	0	2			
H&HS MCAS Camp Pendleton, 67604					
USMC	0	2	CPL	5953	
	0	3	CPL	7257	7252
	0	9	CPL	7257	7253
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	5	LCPL	5953	
	0	5	LCPL	7257	7252
	0	1	MSGT	7291	
	0	2	SGT	5953	
	0	1	SGT	7257	7252
	0	4	SGT	7257	7253
	0	4	SSGT	7257	
ACTIVITY TOTAL:	0	39			
H&HS MCAS Futenma, 63026					
USMC	0	2	CPL	5953	
	0	4	CPL	7257	7252

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	7	CPL	7257	7253
	0	3	LCPL	5953	
	0	8	LCPL	7257	7252
	0	8	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	4	SGT	7257	7252
	0	3	SGT	7257	7253
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	44			
H&HS MCAS Iwakuni, 62613					
USMC	0	1	CPL	5953	
	0	4	CPL	7257	7252
	0	3	CPL	7257	7253
	0	2	GYSGT	7257	
	0	2	LCPL	5953	
	0	4	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	1	SGT	7257	7252
	0	1	SGT	7257	7253
	0	1	SSGT	5953	
	0	6	SSGT	7257	
ACTIVITY TOTAL:	0	27			
H&HS MCAS Miramar, 31200					
USMC	0	2	CPL	5953	
	0	10	CPL	7257	7252
	0	1	CPL	7257	7253
	0	2	GYSGT	7257	
	0	1	LCPL	5953	
	0	7	LCPL	7257	7252
	0	6	LCPL	7257	7253
	0	1	MSGT	7291	
	0	2	SGT	5953	
	0	3	SGT	7257	7252
	0	2	SGT	7257	7253
	0	1	SSGT	5953	
	0	6	SSGT	7257	
ACTIVITY TOTAL:	0	44			
H&HS MCAS Yuma, 62974					
USMC	0	3	CPL	5953	
	0	3	CPL	7257	7252

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	10	CPL	7257	7254
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	6	LCPL	7257	7252
	0	13	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	3	SGT	7257	7252
	0	5	SGT	7257	7254
	0	1	SSGT	5953	
	0	11	SSGT	7257	
ACTIVITY TOTAL:	0	63			
MACS-1 HQ, Yuma, 09541					
USMC	0	1	MGYSGT	7291	
	0	1	MSGT	7291	
	0	1	SGT	5953	
ACTIVITY TOTAL:	0	3			
MACS-1, ATC Det-A, Camp Pendleton, 31053					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-1, ATC Det-B, Miramar, 46623					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-1, ATC Det-C, Yuma, 31055					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	1	SSGT	7257	
ACTIVITY TOTAL:	0	40			
MACS-1, ATC Det-D, Twenty Nine Palms, 31053					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-23 HQ, Aurora, 67834					
SMCR	0	1	LCPL	5953	
	0	1	MSGT	7291	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SMCR	0	1	SGT	5953	
ACTIVITY TOTAL:	0	3			
MACS-24, ATC Det-A, Fort Worth, 55175					
USMC	0	1	GYSGT	5953	
	0	1	GYSGT	7257	
	0	1	SGT	5953	
	0	1	SGT	7257	7252
	0	1	SSGT	5953	
	0	1	SSGT	7257	
SMCR	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	7257	7252
	0	3	SGT	7257	7254
	0	2	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-4 HQ, Futenma, 08848					
USMC	0	1	GYSGT	7257	
	0	1	LCPL	5953	
	0	1	MGYSGT	7291	
	0	1	SGT	5953	
ACTIVITY TOTAL:	0	4			
MACS-4, ATC Det-A, Iwakuni, 09249					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MACS-4, ATC Det-B, Futenma, 62613					
USMC	0	2	CPL	5953	
	0	2	CPL	7257	7252
	0	2	CPL	7257	7254
	0	1	GYSGT	5953	
	0	2	GYSGT	7257	
	0	4	LCPL	5953	
	0	7	LCPL	7257	7252
	0	11	LCPL	7257	7253
	0	1	MSGT	7291	
	0	1	SGT	5953	
	0	2	SGT	7257	7252
	0	3	SGT	7257	7254
	0	1	SSGT	5953	
	0	3	SSGT	7257	
ACTIVITY TOTAL:	0	42			
MAWTS-1, Yuma, 55167					
USMC	0	1	MSGT	7291	9962
ACTIVITY TOTAL:	0	1			
MCAF Kaneohe Bay, 00318					
USMC	0	1	CPL	5953	
	0	2	CPL	7257	7252
	0	2	LCPL	5953	
	0	1	SSGT	5953	
ACTIVITY TOTAL:	0	6			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU														
ACCM	6901			4		0		0		0		0		0
ACCM	6901	6902		1		0		0		0		0		0
ACCS	6901			8		0		0		0		0		0
ACCS	6901	6902		1		0		0		0		0		0
ACCS	6901	6904		0		1		0		0		0		0
ACCS	6904	6901		1		0		0		0		0		0
ACC	6901			54		0		0		0		0		0
ACC	6901	6902		2		0		0		0		0		0
ACC	6901	6904		1		0		0		0		0		0
ACC	6902	6901		1		0		0		0		0		0
ACC	6904	6901		3		0		0		0		0		0
AC1	6901			191		0		0		0		0		0
AC1	6901	6902		20		0		0		0		0		0
AC1	6901	9527		1		0		0		0		0		0
AC2	6901			161		0		0		0		0		0
AC2	6901	6902		18		0		0		0		0		0
AC3	6901			13		0		0		0		0		0
AC3	6901	6902		10		0		0		0		0		0
ETC	1574			2		0		0		0		0		0
ETC	1574	1579		2		0		0		0		0		0
ETC	1574	1580		1		0		0		0		0		0
ETC	1578			1		0		0		0		0		0
ETC	1578	1580		1		0		0		0		0		0
ETC	1579	1580		1		0		0		0		0		0
ETC	1580			1		0		0		0		0		0
ETC	1580	1574		1		0		0		0		0		0
ETC	1580	1579		1		0		0		0		0		0
ET1	1471	1574		1		0		0		0		0		0
ET1	1480	1578		1		0		0		0		0		0
ET1	1574			3		0		0		0		0		0
ET1	1574	1480		1		0		0		0		0		0
ET1	1578			4		0		0		0		0		0
ET1	1578	1570		1		0		0		0		0		0
ET1	1578	1580		1		0		0		0		0		0
ET1	1579	1574		3		0		0		0		0		0
ET1	1579	1580		2		0		0		0		0		0
ET1	1580			4		0		0		0		0		0
ET1	1580	1480		1		0		0		0		0		0
ET1	1580	1570		2		0		0		0		0		0
ET1	1580	1574		1		0		0		0		0		0
ET1	1580	1579		1		0		0		0		0		0
ET2	1502	1574		2		0		0		0		0		0
ET2	1574	1579		4		0		0		0		0		0
ET2	1574	1580		2		0		0		0		0		0
ET2	1574	9526		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
ET2	1574	9527		2		0		0		0		0		0
ET2	1578			6		0		0		0		0		0
ET2	1578	1580		1		0		0		0		0		0
ET2	1578	9527		10		0		0		0		0		0
ET2	1579	1574		5		0		0		0		0		0
ET2	1579	1580		2		0		0		0		0		0
ET2	1580			11		0		0		0		0		0
ET2	1580	1480		5		0		0		0		0		0
ET2	1580	9526		1		0		0		0		0		0
ET2	1580	9527		1		0		0		0		0		0
ET3	1480	1580		1		0		0		0		0		0
ET3	1574			0		0		0		0		0		0
ET3	1574	1480		1		0		0		0		0		0
ET3	1574	1580		1		0		0		0		0		0
ET3	1578			6		0		0		0		0		0
ET3	1579	1580		1		0		0		0		0		0
ET3	1580			2		0		0		0		0		0
ET3	1580	1480		2		0		0		0		0		0
ET3	1580	9527		6		0		0		0		0		0
ET3	1580	9597		1		0		0		0		0		0
ET3	4749	1580		1		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - TAR														
AC1	6901			1		0		0		0		0		0
ET1	1574			1		0		0		0		0		0
ET1	1578			1		0		0		0		0		0
ET1	1579	1574		1		0		0		0		0		0
ET1	1579	1580		1		0		0		0		0		0
ET2	1579	1580		1		0		0		0		0		0
ET2	1580			1		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES														
ACC	6901			1		0		0		0		0		0
AC1	6901			3		0		0		0		0		0
AC2	6901			8		0		0		0		0		0
AC3	6901			1		0		0		0		0		0
ETC	1580			1		0		0		0		0		0
ET1	1580			2		0		0		0		0		0
ET2	1574	1579		1		0		0		0		0		0
ET2	1580			5		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC														
CPL	5953			35		0		0		0		0		0
CPL	7257	7252		56		0		0		0		0		0
CPL	7257	7253		31		0		0		0		0		0
CPL	7257	7254		30		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
GYSGT	5953			14		0		0		0		0		0
GYSGT	7257			39		0		0		0		0		0
LCPL	5953			69		0		0		0		0		0
LCPL	7257	7252		117		0		0		0		0		0
LCPL	7257	7253		161		0		0		0		0		0
MGYSGT	7291			4		0		0		0		0		0
MSGT	7291			21		0		0		0		0		0
MSGT	7291	9962		1		0		0		0		0		0
SGT	5953			24		0		0		0		0		0
SGT	7257	7252		39		0		0		0		0		0
SGT	7257	7253		16		0		0		0		0		0
SGT	7257	7254		40		0		0		0		0		0
SSGT	5953			19		0		0		0		0		0
SSGT	7257			82		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR														
CPL	5953			4		0		0		0		0		0
CPL	7257	7252		4		0		0		0		0		0
CPL	7257	7254		2		0		0		0		0		0
GYSGT	7257			3		0		0		0		0		0
LCPL	5953			10		0		0		0		0		0
LCPL	7257	7252		14		0		0		0		0		0
LCPL	7257	7253		22		0		0		0		0		0
MGYSGT	7291			1		0		0		0		0		0
MSGT	7291			3		0		0		0		0		0
SGT	5953			2		0		0		0		0		0
SGT	7257	7252		3		0		0		0		0		0
SGT	7257	7254		6		0		0		0		0		0
SSGT	7257			4		0		0		0		0		0

SUMMARY TOTALS:

NAVY FLEET SUPPORT ACTIVITIES - ACDU														
				602		1		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - TAR														
				7		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

SUMMARY TOTALS:

NAVY FLEET SUPPORT ACTIVITIES - SELRES	22	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - USMC	799	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - SMCR	78	0	0	0	0	0

GRAND TOTALS:

NAVY - ACDU	602	1	0	0	0	0
NAVY - TAR	7	0	0	0	0	0
NAVY - SELRES	22	0	0	0	0	0
USMC - USMC	799	0	0	0	0	0
USMC - SMCR	78	0	0	0	0	0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FLEET SUPPORT ACTIVITIES - NAVY					
NAS Whiting Field, Undergraduate Pilot Training, 42096, FY00 Increment					
ACDU	0	1	ET2	1579	1574
	0	1	ET3	1574	
	0	1	ET3	1580	9527
ACTIVITY TOTAL:	0	3			
NAS Whidbey Island, 00620, FY01 Increment					
ACDU	0	1	ACCS	6901	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - USMC					
H&HS MCAS Beaufort, 60169, FY00 Increment					
USMC	0	1	SGT	7257	7252
ACTIVITY TOTAL:	0	1			
H&HS MCAS Futenma, 63026, FY02 Increment					
USMC	0	1	CPL	7257	7252
	0	4	LCPL	7257	7252
	0	1	SGT	7257	7252
ACTIVITY TOTAL:	0	6			
H&HS MCAS Yuma, 62974, FY00 Increment					
USMC	0	1	SGT	7257	7252
ACTIVITY TOTAL:	0	1			
MCAF Kaneohe Bay, 00318, FY02 Increment					
USMC	0	1	CPL	5953	
ACTIVITY TOTAL:	0	1			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
ACCS	6901			1		-1		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - USMC													
CPL	5953			1		0		-1		0		0	
CPL	7257 7252			4		0		-1		0		0	
LCPL	7257 7252			8		0		-4		0		0	
SGT	7257 7252			4		0		-1		0		0	

SUMMARY TOTALS:

NAVY FLEET SUPPORT ACTIVITIES - ACDU													
				1		-1		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - USMC													
				17		0		-7		0		0	

GRAND TOTALS:

NAVY - ACDU													
				1		-1		0		0		0	
USMC - USMC													
				17		0		-7		0		0	

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
TRAINING ACTIVITY, LOCATION, UIC: MATSG Pensacola, NATTC Pensacola, 39831														
INSTRUCTOR BILLETS														
USMC														
CPL	5953		0	4	0	4	0	4	0	4	0	4	0	4
GYSGT	5953		0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	7257		0	4	0	4	0	4	0	4	0	4	0	4
MSGT	7291		0	1	0	1	0	1	0	1	0	1	0	1
SGT	5953		0	8	0	8	0	8	0	8	0	8	0	8
SGT	7257	7252	0	2	0	2	0	2	0	2	0	2	0	2
SGT	7257	7253	0	5	0	5	0	5	0	5	0	5	0	5
SSGT	5953		0	3	0	3	0	3	0	3	0	3	0	3
SSGT	7257		0	11	0	11	0	11	0	11	0	11	0	11
SUPPORT BILLETS														
USMC														
CPL	5953		0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	7257		0	1	0	1	0	1	0	1	0	1	0	1
LCPL	5953		0	4	0	4	0	4	0	4	0	4	0	4
SGT	5953		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	5953		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	7257		0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:			0	48	0	48	0	48	0	48	0	48	0	48
TRAINING ACTIVITY, LOCATION, UIC: NATTC Pensacola, Florida, 63093														
INSTRUCTOR BILLETS														
ACDU														
ACC	6901	9502	0	1	0	1	0	1	0	1	0	1	0	1
AC1	6901	9502	0	0	0	0	0	0	0	0	0	0	0	0
ETC	1574	9502	0	1	0	1	0	1	0	1	0	1	0	1
ET1	1578	9502	0	1	0	1	0	1	0	1	0	1	0	1
ET1	1580	9502	0	1	0	1	0	1	0	1	0	1	0	1
ET2	1574	9502	0	0	0	0	0	0	0	0	0	0	0	0
ET2	1580	9502	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL:			0	4	0	4	0	4	0	4	0	4	0	4

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
TRAINING ACTIVITY, LOCATION, UIC: NTTU Keesler AFB, Biloxi, Mississippi, 35970														
INSTRUCTOR BILLETS														
ACDU														
ACC	6901	9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:			0	1	0	1	0	1	0	1	0	1	0	1

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MATSG Pensacola, NATTC Pensacola, 39831													
	USMC	27.7		27.7		27.1		27.1		27.1		27.1	
NATTC Pensacola, Florida, 63093													
	NAVY	70.3		69.8		81.8		81.8		81.8		81.8	
	USMC	51.6		51.6		65.3		65.0		65.0		65.0	
SUMMARY TOTALS:													
	NAVY	70.3		69.8		81.8		81.8		81.8		81.8	
	USMC	79.3		79.3		92.4		92.1		92.1		92.1	
GRAND TOTALS:													
		149.6		149.1		174.2		173.9		173.9		173.9	

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
a. OFFICER - USN			Not Applicable										
b. ENLISTED - USN													
Fleet Support Billets ACDU and TAR													
ACCM	6901		4	0	4	0	4	0	4	0	4	0	4
ACCM	6901	6902	1	0	1	0	1	0	1	0	1	0	1
ACCS	6901		8	-1	7	0	7	0	7	0	7	0	7
ACCS	6901	6902	1	0	1	0	1	0	1	0	1	0	1
ACCS	6901	6904	0	1	1	0	1	0	1	0	1	0	1
ACCS	6904	6901	1	0	1	0	1	0	1	0	1	0	1
ACC	6901		54	0	54	0	54	0	54	0	54	0	54
ACC	6901	6902	2	0	2	0	2	0	2	0	2	0	2
ACC	6901	6904	1	0	1	0	1	0	1	0	1	0	1
ACC	6902	6901	1	0	1	0	1	0	1	0	1	0	1
ACC	6904	6901	3	0	3	0	3	0	3	0	3	0	3
AC1	6901		192	0	192	0	192	0	192	0	192	0	192
AC1	6901	6902	20	0	20	0	20	0	20	0	20	0	20
AC1	6901	9527	1	0	1	0	1	0	1	0	1	0	1
AC2	6901		161	0	161	0	161	0	161	0	161	0	161
AC2	6901	6902	18	0	18	0	18	0	18	0	18	0	18
AC3	6901		13	0	13	0	13	0	13	0	13	0	13
AC3	6901	6902	10	0	10	0	10	0	10	0	10	0	10
ETC	1574		2	0	2	0	2	0	2	0	2	0	2
ETC	1574	1579	2	0	2	0	2	0	2	0	2	0	2
ETC	1574	1580	1	0	1	0	1	0	1	0	1	0	1
ETC	1578		1	0	1	0	1	0	1	0	1	0	1
ETC	1578	1580	1	0	1	0	1	0	1	0	1	0	1
ETC	1579	1580	1	0	1	0	1	0	1	0	1	0	1
ETC	1580		1	0	1	0	1	0	1	0	1	0	1
ETC	1580	1574	1	0	1	0	1	0	1	0	1	0	1
ETC	1580	1579	1	0	1	0	1	0	1	0	1	0	1
ET1	1471	1574	1	0	1	0	1	0	1	0	1	0	1
ET1	1480	1578	1	0	1	0	1	0	1	0	1	0	1
ET1	1574		4	0	4	0	4	0	4	0	4	0	4
ET1	1574	1480	1	0	1	0	1	0	1	0	1	0	1
ET1	1578		5	0	5	0	5	0	5	0	5	0	5
ET1	1578	1570	1	0	1	0	1	0	1	0	1	0	1
ET1	1578	1580	1	0	1	0	1	0	1	0	1	0	1
ET1	1579	1574	4	0	4	0	4	0	4	0	4	0	4
ET1	1579	1580	3	0	3	0	3	0	3	0	3	0	3
ET1	1580		4	0	4	0	4	0	4	0	4	0	4
ET1	1580	1480	1	0	1	0	1	0	1	0	1	0	1
ET1	1580	1570	2	0	2	0	2	0	2	0	2	0	2
ET1	1580	1574	1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
ET1	1580	1579	1	0	1	0	1	0	1	0	1	0	1
ET2	1502	1574	2	0	2	0	2	0	2	0	2	0	2
ET2	1574	1579	4	0	4	0	4	0	4	0	4	0	4
ET2	1574	1580	2	0	2	0	2	0	2	0	2	0	2
ET2	1574	9526	1	0	1	0	1	0	1	0	1	0	1
ET2	1574	9527	2	0	2	0	2	0	2	0	2	0	2
ET2	1578		6	0	6	0	6	0	6	0	6	0	6
ET2	1578	1580	1	0	1	0	1	0	1	0	1	0	1
ET2	1578	9527	10	0	10	0	10	0	10	0	10	0	10
ET2	1579	1574	5	0	5	0	5	0	5	0	5	0	5
ET2	1579	1580	3	0	3	0	3	0	3	0	3	0	3
ET2	1580		12	0	12	0	12	0	12	0	12	0	12
ET2	1580	1480	5	0	5	0	5	0	5	0	5	0	5
ET2	1580	9526	1	0	1	0	1	0	1	0	1	0	1
ET2	1580	9527	1	0	1	0	1	0	1	0	1	0	1
ET3	1480	1580	1	0	1	0	1	0	1	0	1	0	1
ET3	1574		0	0	0	0	0	0	0	0	0	0	0
ET3	1574	1480	1	0	1	0	1	0	1	0	1	0	1
ET3	1574	1580	1	0	1	0	1	0	1	0	1	0	1
ET3	1578		6	0	6	0	6	0	6	0	6	0	6
ET3	1579	1580	1	0	1	0	1	0	1	0	1	0	1
ET3	1580		2	0	2	0	2	0	2	0	2	0	2
ET3	1580	1480	2	0	2	0	2	0	2	0	2	0	2
ET3	1580	9527	6	0	6	0	6	0	6	0	6	0	6
ET3	1580	9597	1	0	1	0	1	0	1	0	1	0	1
ET3	4749	1580	1	0	1	0	1	0	1	0	1	0	1
Staff Billets ACDU and TAR													
ACC	6901	9502	2	0	2	0	2	0	2	0	2	0	2
AC1	6901	9502	0	0	0	0	0	0	0	0	0	0	0
ETC	1574	9502	1	0	1	0	1	0	1	0	1	0	1
ET1	1578	9502	1	0	1	0	1	0	1	0	1	0	1
ET1	1580	9502	1	0	1	0	1	0	1	0	1	0	1
ET2	1574	9502	0	0	0	0	0	0	0	0	0	0	0
ET2	1580	9502	0	0	0	0	0	0	0	0	0	0	0
Chargeable Student Billets ACDU and TAR													
			70	0	70	12	82	0	82	0	82	0	82
SELRES Billets													
ACC	6901		1	0	1	0	1	0	1	0	1	0	1
AC1	6901		3	0	3	0	3	0	3	0	3	0	3
AC2	6901		8	0	8	0	8	0	8	0	8	0	8
AC3	6901		1	0	1	0	1	0	1	0	1	0	1
ETC	1580		1	0	1	0	1	0	1	0	1	0	1
ET1	1580		2	0	2	0	2	0	2	0	2	0	2
ET2	1574	1579	1	0	1	0	1	0	1	0	1	0	1
ET2	1580		5	0	5	0	5	0	5	0	5	0	5

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
TOTAL USN ENLISTED BILLETS:													
Fleet Support			609	0	609	0	609	0	609	0	609	0	609
Staff			5	0	5	0	5	0	5	0	5	0	5
Chargeable Student			70	0	70	12	82	0	82	0	82	0	82
SELRES			22	0	22	0	22	0	22	0	22	0	22
c. OFFICER - USMC			Not Applicable										
d. ENLISTED - USMC													
Fleet Support Billets USMC and AR													
CPL	5953		35	0	25	-1	24	0	24	0	24	0	24
CPL	7257	7252	56	0	56	-1	55	0	55	0	55	0	55
CPL	7257	7253	31	0	31	0	31	0	31	0	31	0	31
CPL	7257	7254	30	0	30	0	30	0	30	0	30	0	30
GYSGT	5953		14	0	14	0	14	0	14	0	14	0	14
GYSGT	7257		39	0	39	0	39	0	39	0	39	0	39
LCPL	5953		69	0	53	0	53	0	53	0	53	0	53
LCPL	7257	7252	117	0	117	-4	113	0	113	0	113	0	113
LCPL	7257	7253	161	0	161	0	161	0	161	0	161	0	161
MGYSGT	7291		4	0	4	0	4	0	4	0	4	0	4
MSGT	7291		21	0	21	0	21	0	21	0	21	0	21
MSGT	7291	9962	1	0	1	0	1	0	1	0	1	0	1
SGT	5953		24	0	18	0	18	0	18	0	18	0	18
SGT	7257	7252	39	0	39	-1	38	0	38	0	38	0	38
SGT	7257	7253	16	0	16	0	16	0	16	0	16	0	16
SGT	7257	7254	40	0	40	0	40	0	40	0	40	0	40
SSGT	5953		19	0	16	0	16	0	16	0	16	0	16
SSGT	5953		1	0	1	0	1	0	1	0	1	0	1
SSGT	7257		82	0	82	0	82	0	82	0	82	0	82

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
Staff Billets USMC and AR													
CPL	5953		5	0	5	0	5	0	5	0	5	0	5
GYSGT	5953		1	0	1	0	1	0	1	0	1	0	1
GYSGT	7257		5	0	5	0	5	0	5	0	5	0	5
LCPL	5953		4	0	4	0	4	0	4	0	4	0	4
MSGT	7291		1	0	1	0	1	0	1	0	1	0	1
SGT	5953		9	0	9	0	9	0	9	0	9	0	9
SGT	7257	7252	2	0	2	0	2	0	2	0	2	0	2
SGT	7257	7253	5	0	5	0	5	0	5	0	5	0	5
SSGT	5953		4	0	4	0	4	0	4	0	4	0	4
SSGT	7257		12	0	12	0	12	0	12	0	12	0	12
Chargeable Student Billets USMC and AR													
			79	0	79	14	93	-1	92	0	92	0	92
SMCR Billets													
CPL	5953		4	0	4	0	4	0	4	0	4	0	4
CPL	7257	7252	4	0	4	0	4	0	4	0	4	0	4
CPL	7257	7254	2	0	2	0	2	0	2	0	2	0	2
GYSGT	7257		3	0	3	0	3	0	3	0	3	0	3
LCPL	5953		10	0	10	0	10	0	10	0	10	0	10
LCPL	7257	7252	14	0	14	0	14	0	14	0	14	0	14
LCPL	7257	7253	22	0	22	0	22	0	22	0	22	0	22
MGYSGT	7291		1	0	1	0	1	0	1	0	1	0	1
MSGT	7291		3	0	3	0	3	0	3	0	3	0	3
SGT	5953		2	0	2	0	2	0	2	0	2	0	2
SGT	7257	7252	3	0	3	0	3	0	3	0	3	0	3
SGT	7257	7254	6	0	6	0	6	0	6	0	6	0	6
SSGT	7257		4	0	4	0	4	0	4	0	4	0	4
TOTAL USMC ENLISTED BILLETS:													
Fleet Support			799	0	799	-7	792	0	792	0	792	0	792
Staff			48	0	48	0	48	0	48	0	48	0	48
Chargeable Student			79	0	79	14	93	-1	92	0	92	0	92
SMCR			78	0	78	0	78	0	78	0	78	0	78

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-103-2051, AN/TPX-42(V)10 RATCF DAIR Maintenance Technician Pipeline
COURSE LENGTH: 13.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.26

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Florida												
	NAVY	ACDU		12		12		12		12		12
		TAR		0		0		0		0		0
		TOTAL:		12		12		12		12		12

CIN, COURSE TITLE: C-103-2053, AN/TPX-42(V)5 DAIR Maintenance Technician Pipeline
COURSE LENGTH: 11.2 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.22

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Florida												
	NAVY	ACDU		12		12		12		12		12
		TAR		1		1		1		1		1
		SELRES		0		0		0		0		0
		TOTAL:		13		13		13		13		13

CIN, COURSE TITLE: C-103-2060, AN/GPN-27 Radar Maintenance Technician Pipeline
COURSE LENGTH: 14.6 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.29

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Florida												
	NAVY	ACDU		21		21		21		21		21
		TAR		1		1		1		1		1
		SELRES		1		0		1		0		1
		TOTAL:		23		22		23		22		23

CIN, COURSE TITLE: C-103-2080, Marine Air Traffic Control Radar Technician Pipeline
COURSE LENGTH: 35.4 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: USMC: 0% **BACKOUT FACTOR:** 0.71

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MATSG Pensacola, NATTC Pensacola												
	USMC	USMC		41		40		40		40		40
		SMCR		2		2		2		2		2
		TOTAL:		43		42		42		42		42

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-222-2010, Air Traffic Controller
COURSE LENGTH: 16.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.32

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Florida												
	NAVY	ACDU		180		180		180		180		180
		TAR		0		0		0		0		0
		SELRES		1		1		1		1		1
	USMC	USMC		166		165		164		164		164
		SMCR		6		6		6		6		6
		TOTAL:		353		352		351		351		351

CIN, COURSE TITLE: C-222-2022, Advanced Radar Air Traffic Controller
COURSE LENGTH: 4.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.08

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Florida												
	NAVY	ACDU		105		105		105		105		105
		TAR		0		0		0		0		0
		SELRES		1		1		1		1		1
	USMC	USMC		22		21		21		21		21
		SMCR		1		1		1		1		1
		TOTAL:		129		128		128		128		128

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline
COURSE LENGTH: 16.0 Weeks **NAVY TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% USMC: 0% **BACKOUT FACTOR:** 0.32

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pensacola, Florida												
	NAVY	ACDU		0		39		39		39		39
		TAR		0		2		2		2		2
		SELRES		0		1		1		1		1
	USMC	USMC		0		46		46		46		46
		SMCR		0		2		2		2		2
		TOTAL:		0		90		90		90		90

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the National Airspace System Modernization Program and, therefore, are not included in Part III of this NTSP:

III.A.2. Follow-on Training

III.A.2.c. Unique Courses

III.A.3 Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: DASR Site Maintenance Course
COURSE DEVELOPER: Raytheon
COURSE INSTRUCTOR: Raytheon
COURSE LENGTH: 49 Days
ACTIVITY DESTINATIONS: MCAF Kaneohe Bay
MCAF Quantico
MCAS Beaufort
MCAS Cherry Point
MCAS Futenma
MCAS Iwakuni
MCAS New River
MCAS Yuma
NALF San Clemente Island
NAS Brunswick
NAS Corpus Christi
NAS Fallon
NAS JRB Fort Worth
NAS Jacksonville
NAS Keflavik
NAS Key West
NAS Kingsville
NAS Lemoore
NAS Meridian
NAS New Orleans
NAS North Island
NAS Oceana
NAS Pensacola
NAS Whidbey Island
NAS Whiting Field
NAS Willow Grove
NATTC Pensacola
NAVSTA Mayport
NAVSTA Roosevelt Roads
NAVSTA Rota
NAWCAD Patuxent River
NAVBASE Ventura County
SPAWARSYSCOM

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	STUDENTS ENL	STUDENTS CIV	
Waterloo, Ontario, Canada, 00000	Jan 99		13	2	Input
	(Completed)		1.7		AOB
					Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: DASR Installation and Checkout Course
COURSE DEVELOPER: Raytheon
COURSE INSTRUCTOR: Raytheon
COURSE LENGTH: 14 Days
ACTIVITY DESTINATIONS: SPAWARSYSCOM

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
Waterloo, Ontario, Canada, 00000	Jul 00 (Completed)			6	Input AOB Chargeable

COURSE TITLE: DASR Operational Test and Evaluation Course
COURSE DEVELOPER: Raytheon
COURSE INSTRUCTOR: Raytheon
COURSE LENGTH: 63 Days
ACTIVITY DESTINATIONS: TBD

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
Waterloo, Ontario, Canada, 00000	Jan 99 (Completed)		12 2.1		Input AOB Chargeable

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-103-2051, AN/TPX-42(V)10 RATCF DAIR Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	12		12		12		12		12	ATIR
	11		11		11		11		11	Output
	2.8		2.8		2.8		2.8		2.8	AOB
	2.8		2.8		2.8		2.8		2.8	Chargeable

CIN, COURSE TITLE: C-103-2053, AN/TPX-42(V)5 DAIR Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	13		13		13		13		13	ATIR
	12		12		12		12		12	Output
	2.6		2.6		2.6		2.6		2.6	AOB
	2.6		2.6		2.6		2.6		2.6	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		0		0		0		0	ATIR
	0		0		0		0		0	Output
	0.0		0.0		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: C-103-2060, AN/GPN-27 Radar Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	22		22		22		22		22	ATIR
	20		20		20		20		20	Output
	5.8		5.8		5.8		5.8		5.8	AOB
	5.8		5.8		5.8		5.8		5.8	Chargeable

III.A.2.a. EXISTING COURSES

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		0		1		0		1		ATIR
1		0		1		0		1		Output
0.3		0.0		0.3		0.0		0.3		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: C-103-2080, Marine Air Traffic Control Radar Technician Pipeline
TRAINING ACTIVITY: MATSG
LOCATION, UIC: NATTC Pensacola, 39831

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
41		40		40		40		40		ATIR
41		40		40		40		40		Output
27.7		27.1		27.1		27.1		27.1		AOB
27.7		27.1		27.1		27.1		27.1		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
2		2		2		2		2		ATIR
2		2		2		2		2		Output
1.4		1.4		1.4		1.4		1.4		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: C-222-2010, Air Traffic Controller
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
180		180		180		180		180		ATIR
162		162		162		162		162		Output
51.5		51.5		51.5		51.5		51.5		AOB
51.5		51.5		51.5		51.5		51.5		Chargeable

III.A.2.a. EXISTING COURSES

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.3		0.3		0.3		0.3		0.3	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	166		165		164		164		164	ATIR
	166		165		164		164		164	Output
	50.0		49.7		49.4		49.4		49.4	AOB
	50.0		49.7		49.4		49.4		49.4	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	6		6		6		6		6	ATIR
	6		6		6		6		6	Output
	1.8		1.8		1.8		1.8		1.8	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: C-222-2022, Advanced Radar Air Traffic Controller
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	105		105		105		105		105	ATIR
	95		95		95		95		95	Output
	7.1		7.1		7.1		7.1		7.1	AOB
	7.1		7.1		7.1		7.1		7.1	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
22		21		21		21		21		ATIR
22		21		21		21		21		Output
1.6		1.5		1.5		1.5		1.5		AOB
1.6		1.5		1.5		1.5		1.5		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.1		0.1		0.1		0.1		0.1		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.b. PLANNED COURSES

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		41		41		41		41	ATIR
	0		37		37		37		37	Output
	0.0		12.0		12.0		12.0		12.0	AOB
	0.0		12.0		12.0		12.0		12.0	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		1		1		1	ATIR
	0		1		1		1		1	Output
	0.0		0.3		0.3		0.3		0.3	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		46		46		46		46	ATIR
	0		46		46		46		46	Output
	0.0		14.1		14.1		14.1		14.1	AOB
	0.0		14.1		14.1		14.1		14.1	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		2		2		2		2	ATIR
	0		2		2		2		2	Output
	0.0		0.6		0.6		0.6		0.6	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the National Airspace System Modernization Program and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.C. Facility Requirements

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
0001	Digital Airport Surveillance Radar	1	Nov 01	CFE	Pending
0002	Digital Airport Surveillance Radar	1	Aug 05	CFE	Pending
0003	Visual Information Display System	1	Feb 02	CFE	Pending
0004	Visual Information Display System	1	Feb 02	CFE	Pending
0005	Standard Terminal Automation Replacement System	1	Oct 01	CFE	Pending
0006	Standard Terminal Automation Replacement System	1	Jan 05	CFE	Pending
GPETE					
Note: The GPETE Quantity Required is based upon initial installation requirements. Additional FY04 and FY05 installations will require additional GPETE.					
DASR Equipment Required					
0001	Marconi 6021 Microwave Test Set	1	Mar 02	CFE	Pending
0002	Model 6230 Accessory Kit for 6021	1	Mar 02	CFE	Pending
0003	Model 6145 Pulse Mod for 6021	1	Mar 02	CFE	Pending
0004	Model 6910 Power Sensor for 6021	1	Mar 02	CFE	Pending
0005	Narda 8816 Radiation Monitor	1	Mar 02	CFE	Pending
0006	Narda 8621D Radiation Monitor Probe	1	Mar 02	CFE	Pending
0007	Fluke 8060 Digital Multimeter	1	Mar 02	CFE	Pending
0008	HP 8481A Power Sensor	1	Mar 02	CFE	Pending
0009	HP 8561 Spectrum Analyzer	1	Mar 02	CFE	Pending
0010	Tektronix 2246A Oscilloscope	1	Mar 02	CFE	Pending
0011	Boonton 4400 Peak Power Analyzer	1	Mar 02	CFE	Pending
0012	Peak Power Sensor for 4400	1	Mar 02	CFE	Pending
0013	HP 1662AS Logic Analyzer	1	Mar 02	CFE	Pending
0014	HP 4957 Protocol Analyzer	1	Mar 02	CFE	Pending

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline (Continued)
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
0015	Waitronics 486 PC with color monitor	1	Mar 02	CFE	Pending
0016	HP 1200C Color Printer	1	Mar 02	CFE	Pending
0017	Lucus Weinschel Attenuator, 3dB, 5W	2	Mar 02	CFE	Pending
0018	Lucus Weinschel Attenuator, 6dB, 5W	2	Mar 02	CFE	Pending
0019	Lucus Weinschel Attenuator, 10dB, 5W	2	Mar 02	CFE	Pending
0020	Lucus Weinschel Attenuator, 20dB, 5W	2	Mar 02	CFE	Pending
0021	Narda 375BN Termination, 10 W	2	Mar 02	CFE	Pending
0022	Narda 378N Termination, 1 W	2	Mar 02	CFE	Pending
0023	Lucus Weinschel A119A-33 RF Step Attenuator	1	Mar 02	CFE	Pending
0024	1109-9-1 Desiccant Plug/Indicator	2	Mar 02	CFE	Pending
0025	HP 423B Crystal Detector	1	Mar 02	CFE	Pending
0026	Teltonic Model 5143 IF Step Attenuator	1	Mar 02	CFE	Pending
0027	Fluke Model 75 Digital Multimeter	1	Mar 02	CFE	Pending
0028	HP 435A Average Power Meter	1	Mar 02	CFE	Pending
0029	Attenuator, 20dB, 200 W	1	Mar 02	CFE	Pending
0030	Attenuator, 30dB, 20 W	1	Mar 02	CFE	Pending
STARS Equipment Required					
0031	Overhead Winch Model ED12SD	2	CY 01	CFE	Pending
0032	Overhead Winch Model DK2-250	2	CY 01	CFE	Pending
0033	DDM Lifting Jig	2	CY 01	CFE	Pending
0034	CRT Lifting Jig	2	CY 01	CFE	Pending
0035	Cart	4	CY 01	CFE	Pending
0036	RM-10 Remote Controller	4	CY 01	CFE	Pending
0037	LS-10 Landing Sensor	4	CY 01	CFE	Pending
0038	AS-10 Alignment Software	4	CY 01	CFE	Pending
0039	Personal Computer	4	CY 01	CFE	Pending

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline (Continued)
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola 63093

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR	QTY REQD	DATE REQD	GFE CFE	STATUS
0040	Astro VG-829 Signal Generator	4	CY 01	CFE	Pending
0041	Fluke Model 27 Multimeter	4	CY 01	CFE	Pending
0042	HP54645A-E01 Oscilloscope	4	CY 01	CFE	Pending
0043	Fluke IT10-100 Optic Cabling LAN Analyzer	4	CY 01	CFE	Pending
0044	Minolta CA-100 Color Analyzer	4	CY 01	CFE	Pending
0045	Sony DDM-BC02 Ball Chart	4	CY 01	CFE	Pending
0046	Peak 2008 Stand Microscope	4	CY 01	CFE	Pending
0047	Klein CM7AG Convergence Gauge	4	CY 01	CFE	Pending
0048	Sony 3-702-567-01 Anode Cap Remover	4	CY 01	CFE	Pending
0049	Sony 3-702-566-01 Flex-Cable Tweezers	4	CY 01	CFE	Pending
0050	UT330 30KVA uninterruptible Power Supply	2	CY 01	CFE	Pending
0051	Fluke 615937 Fiber Test Kit	4	CY 01	CFE	Pending
SPETE					
0001	Monopulse Beacon Test Set	1	FY01	CFE	Pending
0002	Monopulse Beacon Test Set	1	FY05	CFE	Pending
ST					
0001	Screwdriver Set	4	CY 01	GFE	Pending
0002	Metric Socket Set	4	CY 01	GFE	Pending
0003	Needle Nose Pliers	4	CY 01	GFE	Pending
0004	Excelite Tool Kit	4	CY 01	GFE	Pending
005	ESD Mats	12	CY 01	GFE	Pending
006	ESD Wrist Straps	12	CY 01	GFE	Pending
007	Stop Watch	1	CY 01	GFE	Pending

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
DASR Operational Test and Evaluation Course	Waterloo, Ontario, Canada, 00000	1	9	Jan 99
DASR Site Maintenance Course	Waterloo, Ontario, Canada, 00000	1	7	Jan 99
DASR Installation and Checkout Course	Waterloo, Ontario, Canada, 00000	1	2	Jul 00

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Electronic Display Device	2	CY 01	Pending
Instructor Guides	3	CY 01	Pending
Student Evaluations	50	CY 01	Pending
Student Guides	50	CY 01	Pending
Student Tests	50	CY 01	Pending
Wall Charts	1	CY 01	Pending
Schematic Packs	9	CY 01	Pending
Test Administrator's Guide	1	CY 01	Pending
Trainee Guides	9	CY 01	Pending
Transparency Sets (two electronic versions and one paper version)			
VG-AF-100	3	CY 01	Pending
VG-AF-200	3	CY 01	Pending
VG-AF-300	3	CY 01	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
00-0070C NAS Documentation Services-AOS-530, STARS-COTS Technical Hardware Manual	Hard copy	6	CY 01	Pending
15-00002-00 Multiport 400S/800S A/Sync Series User's Manual	Hard copy	2	CY 01	Pending
3-800-980-22(1) Color Monitor Guide - SUN GDM 17/20 E20	Hard copy	2	CY 01	Pending
4002064 Printer X-LQ570+/1070+	Hard copy	2	CY 01	Pending
6000-004 Site Technical Manual and Assembly Procedures for the Digital Airport Surveillance Radar (DASR) Tower	Hard copy	2	CY 01	Pending
780-003727 User's Manual for the ASR-11 Radar Data Translator Equipment Control and Maintenance Console	Hard copy	10	CY 01	Pending
780-004232 Installation, Operation and Maintenance Manual for the System Interface Unit of the Airport Surveillance Radar (ASR-11)	Hard copy	10	CY 01	Pending
79680 Installation and Maintenance Manual for Model 174100 ASR-11 S-Band Antenna	Hard copy	10	CY 01	Pending
800-6654-12 Using your SUN Keyboard	Hard copy	2	CY 01	Pending
800-6802-14 Keyboard and Mouse Product Notes - SUN Type 5C	Hard copy	2	CY 01	Pending
801-6397-13 Diskette Drive Installation and User's Manual	Hard copy	2	CY 01	Pending
990-7022a Smart-UPS XL Supplement	Hard copy	2	CY 01	Pending
990-7095 Smart-UPS Rack Mount Supplement (Includes 3U Models) User's Manual	Hard copy	2	CY 01	Pending
990-7305a APC Safety Guide	Hard copy	2	CY 01	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline (Continued)
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
CDRL L016001G STARS Program DFTA01-96-D-03008 ISC O&M Manual for the SOS T16191.1	Hard copy	10	CY 01	Pending
CDRL L016-001G ISC O&M Manual for the OSF T16191.8	Hard copy	10	CY 01	Pending
CDRL L016-016 ISC ATCoach User's Manual T16191.8	Hard copy	10	CY 01	Pending
CDRL L016-006B EDC New CHI TWC/TWD Operator's Manual (V3.1A) Quick Reference Card T16191.159	Hard copy	10	CY 01	Pending
CDRL L016-007B EDC/ESL ATSS Operator's Manual (V3.1x) T16191.160	Hard copy	10	CY 01	Pending
CDRL L016-008 FSL Database Management System (DMS) Software User's Manual (SUM) V7.3 T16191.6	Hard copy	10	CY 01	Pending
CDRL L016-009 FSL Software Tools Menu V7.3 T16191.167	Hard copy	10	CY 01	Pending
CDRL L016-011 FSL TDW/TCW Operator's Manual V7.3 T16191.6	Hard copy	10	CY 01	Pending
CDRL L016-011-01 FSL TDW/TCW Quick reference Card V7.3 T16191.6	Hard copy	10	CY 01	Pending
CDRL L016-012 FSL Monitoring and Control Workstation (MCW) Operator's Manual V7.3 T16191.3	Hard copy	10	CY 01	Pending
CDRL L016-013 Early display Configuration (DEC) Database Management System (DMS) Software User's Manual T16191.13	Hard copy	10	CY 01	Pending
CDRL L016-014 Early Display Configuration (EDC) Software Tools MENU T16191.167	Hard copy	10	CY 01	Pending
G584380 Equipment Manual, S-Band Airport Surveillance Radar ASR-11	Hard copy	10	CY 01	Pending
IB-S 268 Rev. - Part No. 48248 Models 600/850/1200 Series A-D Compressor Dehydrator Installation and Operation Manual	Hard copy	2	CY 01	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline (Continued)
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
MVME 712A/D2 Transition Modules and LCP2 Adapter Board - Motorola MVME 712-12/-13, MVME 712A/AM/B User's Manual	Hard copy	2	CY 01	Pending
None Digital Airport Surveillance Radar (DASR) ASR-11 Antenna/Pedestal System Field Maintenance Manual (With Maintenance Parts List)	Hard copy	10	CY 01	Pending
TI 6310.47 Volume 1 ASR-11 System Operation and Maintenance Manual	Hard copy	10	CY 01	Pending

IV.C. FACILITY REQUIREMENTS

IV.C.1. FACILITY REQUIREMENTS SUMMARY (SPACE / SUPPORT) BY ACTIVITY

CIN, TITLE: C-103-2069, DASR/STARS Maintenance Technician Pipeline
TRAINING ACTIVITY: NATTC
LOCATION, UIC: Pensacola, 63093

REQUIRED RFT DATE: CY 01

SQUARE FEET SPACE REQUIREMENTS			MAJOR EFR REQUIREMENTS			SPACE AVAILABLE	FACILITIES SUPPORT AVAILABILITY		
ACADEMIC CLASS	LAB	APPROVED CLASS/LAB	(KW) POWER	A/C TONS	OTHER CRITICAL		(KW) POWER	A/C TONS	OTHER CRITICAL
132	0	132	0	0	0	Not Available	0	0	0

Note: The lab will be in a pre-fabricated shelter delivered in conjunction with the DASR. Input power will be via a transformer supplied by the contractor during installation.

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Awarded Contract for DASR	Aug 96	Completed
DA	Began Developmental Test of VIDS	FY97	Completed
FAAAC	Began STARS Operator Training	Mar 98	Completed
DA	Received DASR at Elgin AFB	Jun 98	Completed
FAAAC	Began STARS Site Hardware Training	Jun 98	Completed
DA	Prepared the DoD Test Site (Elgin AFB)	Sep 98	Completed
DA	Conducted OT&E Initial Training for DASR	Jan 99	Completed
DA	Approved COTS and NDI Technical Manuals for DASR	Feb 99	Completed
DA	Conducted Combined DT&E and OT for DASR	Jun 99	Completed
DA	Began Inspection, Validation, and Verification of VIDS	FY99	Completed
FAAAC	Completed STARS Site Hardware Training	Oct 99	Completed
AFOTEC	Conducted OT&E for DASR	Nov 99	Completed
DA	Delivered STARS to NAWC St. Inigoes	Dec 99	Completed
DA	Completed DT&E for STARS	Jan 00	Completed
DA	Completed DT&OT for STARS	Jan 00	Completed
DA	Approved System Operation and Technical Manuals for DASR	July 00	Completed
DA	Begin Combined OT&E for STARS and DASR	Jun 01	On-going
DA	Attain Initial Operating Capability for STARS	FY02	Pending
DA	Attain Initial Operating Capability for VIDS	FY02	Pending
DA	Begin Fleet Delivery and Installation of VIDS	FY02	Pending
DA	Complete Combined OT&E for STARS and DASR	Nov 01	Pending
DA	Achieve Milestone III Decision for STARS	Aug 01	Pending
DA	Attain DoD Initial Operating Capability for STARS	FY02	Pending
DA	Begin Fleet Installation of STARS	FY02	Pending
DA	Deliver STARS TTE (First System)	FY02	Pending

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Deliver DASR TTE (First System)	Nov 01	Pending
DA	Begin Fleet Delivery of DASR	FY02	Pending
TSA	Begin Follow-on Training for DASR	FY02	Pending
DA	Attain Initial Operating Capability for DASR	FY02	Pending
DA	Attain Full Service Initial Operating Capability for STARS	FY02	Pending
TSA	Begin Follow-on Training for STARS	FY02	Pending
TSA	Begin Follow-on Training for VIDS	FY02	Pending
DA	Deliver VIDS Training Device to NATTC Pensacola	FY05	Pending
DA	Deliver VIDS TTE (Both Systems)	Feb 02	Pending
DA	Deliver DASR TTE (Second System)	Aug 05	Pending
DA	Attain Material Support Date	FY05	Pending
DA	Deliver STARS TTE (Second System)	Jan 05	Pending
DA	Complete Fleet Delivery and Installation of DASR	FY12	Pending
DA	Complete Fleet Delivery and Installation of STARS	FY12	Pending
DA	Complete Fleet Delivery and Installation of VIDS	FY12	Pending

PART VI - DECISION ITEMS/ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
None			

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
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PART VII - POINTS OF CONTACT

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PART VII - POINTS OF CONTACT

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SUMMARY OF COMMENTS

ON THE

NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM

DRAFT NAVY TRAINING SYSTEM PLAN

OF NOVEMBER 2000

N88-NTSP-A-50-0011/D

AND THE

PROPOSED NAVY TRAINING SYSTEM PLAN

OF APRIL 2001

N88-NTSP-A-50-0011/P

Prepared by: ATC Aubrey Taylor, AIR 3.4.1
Contact at: (301) 757-3108
Date submitted: 10 May 2001

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
DRAFT NAVY TRAINING SYSTEM PLAN

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COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
DRAFT NAVY TRAINING SYSTEM PLAN

ACTIVITY NAME: Director of Naval Training and Education (N79)

Page I-20. This shows the DASR/STARS Maintenance Technician Pipeline and the pipeline prerequisites. Looking at the proposed pipeline courses one at a time:

COMMENT: (1) C-103-2045 Air Traffic Control Maintenance Preparation is listed in CANTRAC as a 12-day course. Most, if not all, of the objectives listed in the Scope for this course are attained in the courses listed as pipeline course prerequisites. Recommend examining this course for redundancy with pre-requisite training.

INCORPORATED: NO

REMARKS: NATTC concurs Maintenance Preparatory course needs revision. Current plans to convert course to CBT and reduce course length are underway. CNET funded item.

COMMENT: (2) C-103-2026 Miniature Component Repair. This course contradicts the stated Organizational CM philosophy, which is limited to removal and replacement of LRU/SRU items. Recommend considering deleting this training requirement.

INCORPORATED: NO

REMARKS: NATTC concurs with comment.

COMMENT: (3) C-103-XXX2 Fiber Optic Intersite Maintenance. Fiber optic cable repair is not a stated Organizational Maintenance objective. In other NTSPs, fiber optic cables are often relegated to testing and unit replacement. Recommend gaining shore activities examine their in-house resources and if necessary utilize an NEC awarding course such as C-103-2062 to gain a fiber optic cable repair technician to serve the command, not just the DASR/STARS equipment.

INCORPORATED: NO

REMARKS: NATTC concurs with comment DASR/STARS Maintenance courses will only teach fiber optic cables to testing and unit replacement level.

COMMENT: (4) C-103-XXXX DASR Maintenance. As indicated by activities listed in paragraph. II.A.1.a, of 37 listed Navy activities, only 5 are outside the United States. For the USMC activities, 5 of 32 listed activities are outside the United States. As indicated by paragraph. I.D.1 first bullet, all activities are shore based. On page II-37, paragraph. II.B.1, the total number of USN/USMC pipeline graduates is projected to be 93 per year. Given that 59 of 69 total installations are in the United States and the equipment duplicates widespread FAA-supported airports, it seems that the same level of civil service or contract technicians that service the FAA activities can be utilized at United States based installations. If USN NEC/USMC MOS personnel are required for maintenance support at outside U.S. activities, they might be contractor trained by Raytheon at less cost than installing TTE and establishing maintenance courses at NATTC Pensacola. Recommend feasibility study.

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
DRAFT NAVY TRAINING SYSTEM PLAN

INCORPORATED: NO

REMARKS: Current FAA/Raytheon facilities are unable to support FAA projected training requirements. The FAA has looked at NATTC as an alternate training site. If feasibility study is initiated perhaps TTE costs could be re-couped from the FAA.

Maintenance training summary comments:

COMMENT: (1) The proposed maintenance training plan appears to contain redundancies with objectives contained in prerequisite training.

INCORPORATED: NO

REMARKS: See previous comments.

COMMENT: (2) The scope of proposed maintenance training appears to exceed the stated requirements of Organizational level maintenance.

INCORPORATED: NO

REMARKS: See previous comments.

COMMENT: (3) The expense of establishing a training pipeline for 93 annual graduates may not be justified. Recommend considering using civilian maintenance technicians for United States shore activities.

INCORPORATED: NO

REMARKS: See previous comments.

COMMENT: (4) Recommend limited training of USN NEC and USMC MOS holders at contractor facilities for the ten overseas installations where civil service or civilian contract personnel may not be available.

INCORPORATED: NO

REMARKS: Training will be available for both CONUS and overseas locations for active duty, reserve, and DoD employees.

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
DRAFT NAVY TRAINING SYSTEM PLAN

COMMENT: Paragraph I.H.4.b, Operator Training. Existing Air Traffic Control Operator 'A' and 'C' school courses "will be modified and stand-up when fleet ATC facilities are 50 percent operational with VIDS and STARS." Existing course content will be phased out at that time. Recommend inserting specifics on planned course content and instructional strategies for the revised operator courses.

INCORPORATED: NO

REMARKS: Specifics on planned course content and course strategies will be promulgated in the appropriate Training Project Plan for that course. NATTC Pensacola will develop Training Project Plans for each course estimated for FY04 and FY05.

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
DRAFT NAVY TRAINING SYSTEM PLAN

ACTIVITY NAME: Space and Naval Warfare Systems Center, Charleston

COMMENT: Entire Document, Item: NAS MOD. Recommended change "NAS MOD" to NAS Mod"

INCORPORATED: YES

REMARKS: None

COMMENT: Executive Summary, Item: STARS/DASR discussion. Will VIDS be included in the discussion?

INCORPORATED: NO

REMARKS: VIDS was not mentioned because it is an AAP program and does not require milestone tracking.

COMMENT: Page I-2, para D 1, "All shore-based Navy and Marine Corps approach control facilities." Recommend change: All shore-based Navy and Marine Corps Air Traffic Control Facilities. Reason: NAS Mod equipment (i.e. VIDS) will be installed at non-approach control facilities also.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-2, para F, Item: AN/GPN-27. Recommend change: " Change to AN/GPN-27 and AN/UPX-27 Interrogator. Item: AN/UYX-1. Question: Is the AN/UYX-1 an Automation system?

INCORPORATED: YES

REMARKS: The AN/UYX-1 is considered an automation system as addressed.

COMMENT: Page I-7, Item: VIDS figures. Recommended change: Replace with new VIDS figures.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-8, second paragraph (1st list), Item: VIDS interfaces. Recommended changes: Update and correct VIDS interfaces. ASOS acronym is incorrect. AFLCS nomenclature is AN/FSN-7. Add NAVAID interfaces.

INCORPORATED: YES

REMARKS: None

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
DRAFT NAVY TRAINING SYSTEM PLAN

COMMENT: Page I-8, second paragraph (1st list), Item: "AN/GMQ-27 Weather Vision and/or Meteorological Information Distribution System (MIDS)." Recommended change: Change to "AN/GMQ-27 Weather Vision and/or METOC Integrated Data Display System (MIDDS)"

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-8, third paragraph, Item: "Weather Vision/MIDS Display". Recommended change: Change to "Weather Vision/MIDDS Display". Item: ATAA display, keyboard and printer. Recommended change: Delete

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-8, fourth paragraph, Item: "ATAA". Recommended change: Change to - Air Traffic Activity Report.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-9, para G.2. b., Item: "The results are not yet available." Recommended change: A site survey report was released in FY99 documenting the survey results for both the STARS and VIDS installations for NATTC.

INCORPORATED: No

REMARKS: The FY99 survey is mentioned previously. The statement "The Site Basic Electronic System Engineering Plan (BESEP) is under development by SPAWAR Code 313 and has not been released" has been added.

COMMENT: Page I-9, para G.2. c. Item: "The Standard Information Window is normally located at the top…". Recommended Change: "is located at the top…". Rationale: The window is always at the top. Item: "Due to the critical nature of the information displayed, no other system window can cover the Standard Information Window." Recommended change: Delete this statement.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-9, para G.2. c, second paragraph. Item: "It consists of a set of 11 buttons and…". Recommended change: Change 11 buttons to 10 buttons.

INCORPORATED: YES

REMARKS: None

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
DRAFT NAVY TRAINING SYSTEM PLAN

COMMENT: Page I-10, para G 4. Item: Significant Interfaces. Recommended change: Delete. There is no longer any interface of the existing Navy beacon system. It is interoperable with the Aircraft Beacon Transponders.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, para H. 1. Item: "Operator duties for the NAS Mod components consist of energizing and de-energizing the equipment." Question: Will the operators energize and de-energize the equipment?

INCORPORATED: NO

REMARKS: It is my understanding that Air Traffic Controllers (Operators) will turn on and turn off the equipment they are using. I do not believe this statement meant to suggest they would energize and de-energize all NAS Mod components.

COMMENT: Page I-10, para H. 1. Item: "….with Navy Enlisted Classification (NEC) 6901, "Recommended change: Delete this part of the sentence. Reason: Navy AC's without NEC 6901 will also use NASMOD equipment.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, para H. 2 c. Item: Depot maintenance. Comment: VIDS depot maintenance will be provided by NAVICP (may be PBL to SSCC). Comment: STARS end-state depot is not mentioned.

INCORPORATED: NO

REMARKS: Depot maintenance for VIDS is currently under business case analysis and will be address in future iterations of this NTSP.

COMMENT: Page I-10, para H. 2 d. Item: Interim maintenance. Comment: SSCC will not be responsible for interim STARS maintenance (NAWCAD St. Inigoes is).

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-11, para H 4. Item: ".. shore-based Navy and Marine Corps approach control facilities." Recommended Change: Change approach control facilities to Air Traffic Control Facilities. Comment: VIDS training is not addressed.

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
DRAFT NAVY TRAINING SYSTEM PLAN

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-12, para H 4 a. Item: "This two-day installation and checkout course …" Recommended change: delete the words "two-day" from the sentence. Reason for Change: two days of training may be overly optimistic for medium and large facilities.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-12, para H a. (2). Item: RFT date …….. July 2000. Recommended change: It does not appear that 7/00 for INCO will be met. Recommend change target date to 07/01. Comment: STARS INCO training is not addressed.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-13 para (4). Item: "The course will take approximately four to eight hours to …." Comment: ACCM Kent noted that it took him between 12 to 13 hours to do both the FSL and ESL parts of the training.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-15, Item: Description-- Naval Air Traffic Control Air Navigation Aids and Landing System (NAALS) are separated as two bullets. Recommended Change: combine the two bullets into one.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-24, para 3, Item: "Each of the Navy and Marine Corps approach control facilities …". Recommended Change: change approach control facilities to Air Traffic Control Facilities.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-24, para 2 and 3, Item: Personnel Qualification Standards. Comment: Not in favor of a PQS which will allow the marines to circumvent attending the formal DASR course as they do now with the AN/GPN-27. There should be a PQS (standards to control local JQR's)

with additional on-site proficiency demonstrations for obtaining the NEC after a tech has been to the school.

INCORPORATED: YES

REMARKS: Per NATTC Pensacola, no PQS is being developed for NAS Mod components. Site specific JQR's to be locally developed as required.

COMMENT: Page I-25 Section K, Item: Installation and Delivery Schedules. Recommended change: Revise per latest P-list. (Latest is attached to forwarding e-mail, however you should expect the schedules to be constantly changing and word the inclusion of schedules in the document accordingly.)

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-28 (1), Item: Maintenance Training. Update DASR RFOU date to March 2002.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-2, Item: Training Logistics Support Requirements. Recommended change: Add SPETE Monopulse Beacon Test Set, Qty 1 in 01 and 05.

INCORPORATED: YES

REMARKS: None

COMMENT: Part VII, page 2. Recommend **change/add** the following:

Mr. Rick DeForest	COMM: (843) **218**-5309
Test Director	DSN: **588**-5309
SPAWAR System Center, Charleston, 31C	FAX: (843) 218-5366
deforstr@spawar.navy.mil	
Mr. Steve Whitbeck	COMM: (843) 218-5313
Supervisory Engineer	DSN: **588**-5313
SPAWAR System Center, Charleston, 313	FAX: (843) 747-1055
whitbecs@spawar.navy.mil	
Mr. Brian Wottowa	**COMM: (843) 218-5045**
Engineer	**DSN: 588-5045**
SPAWAR System Center, Charleston, 313BW	**FAX: (843) 747-1055**
wottowab@spawar.navy.mil	

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
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ACTIVITY NAME: Naval Air Warfare Center Aircraft Division (NAWCAD) St. Inigoes

COMMENT: Page I-2, para F., line three, (AN/TPX-42 and AN/UYX-1) should read (AN/TPX-42A(V)5 & 10)

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6, para (4) should read **Monitor and Control Workstation.** The Monitor and Control Workstation(MCW) consists of one FS Processor, one ES Processor, and one Display Processor(DP) mounted in the MCW computer table in the equipment room. All FS and ES processors are Sun Ultra 5; all DP processors are Sun Ultra 10. The MCW has one standard 24-inch 1280x 1024 Cathode Ray Tube(CRT) display. The MCW provides control and monitoring display for control system operation, system status display and/or update, system message display, and control playback of recorded system data.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6, para (5), change Sun Ultra 1 Model 170 to Sun Ultra 5.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6, para (6), change Sun Ultra 1 Model 200E to Sun Ultra 5.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6, para (7), change Sun Ultra 1 Model 200E to Sun Ultra 5; five GB DAT to 12 GB DAT; 30 GB DLT to 40 GB DLT.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6, para (8), same changes as para (7).

INCORPORATED: YES

REMARKS: None

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COMMENT: Page I-6, para (9)(a) change printer to HP LaserJet 5000N.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-7, para (10), change Sun Ultra 1 Model 170 to Sun Ultra 5.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-9, para 2.b., remove the last sentence "The results are not yet available."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, para 2.c., add sentence at the end of paragraph "Organic depot support for STARS is planned in FY02."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, para 2.d., remove the last two sentences and replace with "The contractor/SPAWARSYSCEN, Charleston will provide maintenance support required during initial installation of NASMOD at each installation site. The DASR and STARS systems will be under warranty for one year.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-11, para 4, line seven, change C-103-XXX to C-103-2069. Remove last sentence on page beginning with "A" and ending with "courses", because no "I" level training is required.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-12, para a., change Initial Training to Interim Training. Question: Is this interim/cadre training prior to Schoolhouse standing up? If so, STARS should be added to courses 1, 2 and 3, i.e., STARS/DASR.

INCORPORATED: YES

REMARKS: None

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COMMENT: Page I-13, para (4), in line three, DASR should be STARS.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-15, para (2) **Maintainer.** Any reference to VIDS or STARS should be replaced by NASMOD. Suggest that the four existing courses, C-103-2053(page I-18), C-103-2051(page I-19), C-103-2060(page I-20) and C-103-2080(page I-21) be listed under **Maintainer.**

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-16, CIN C-103-XXXX should be changed to C-103-2018. This course should be listed under **d. Training Pipeline**, page I-22.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-17, CIN C-103-XXXX should be changed to C-103-2025. This course should be listed under **d. Training Pipeline**, page I-22.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-22, para d., CIN C-103-XXXX should be changed to C-103-2069 and DASR/STARS should be changed to NASMOD. At bottom of page under **Note:**, DASR/STARS should be changed to NASMOD and the first three courses, C-103-2045, C-103-2026 and C-103-XXX2 should have a description like DASR and STARS courses.

INCORPORATED: NO

REMARKS: Correct course title per CNET is DASR/STARS.

COMMENT: Page I-23, top of page, C-103-XXXX DASR Maintenance should be changed to C-103-2018; C-103-XXXX STARS Maintenance should be changed to C-103-2025.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-25, top of page, Planned Maintenance System for DASR/VIDS will be developed by SPAWARSYSCEN; NAWCAD will develop STARS.

INCORPORATED: YES

REMARKS: None

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COMMENT: Page I-25, **5. Repair Parts.** STARS onboard critical item spares will be provided during installation. Interim supply support will be provided by Raytheon at Norfolk, Virginia. NAWCAD, St. Inigoes will ensure repair part support, initial, interim, and follow-on secondary item spares are budgeted. A Material Support Date (MSD) for each NASMOD component will be established, and supply support will transition to the Naval Inventory Control Point, Mechanicsburg, Pennsylvania.

INCORPORATED: YES

REMARKS: None

COMMENT: Pages I-25, 26 & 27, Installation and Delivery Schedules need to be updated for VIDS and DASR. The following updates are for STARS: NAS Pensacola – 2006, NAS JRB Ft. Worth – 2010, NAS Kingsville – 2006, NAS Whiting Field – 2004, NAS Corpus Christi – 2005, NAS North Island – 2008, MCAS Cherry Point – 2004, NAS Jacksonville – 2005, NAS New Orleans – 2007, MCAS Yuma – 2005, NAS Fallon – 2006, NAS Brunswick – 2006, NAS Key West – 2003, MCAS Futenma – 2011, NAVSTA Mayport – 2011, NAS Roosevelt Roads – 2008, MCAF Quantico – 2010, NAVSTA Rota – 2008, NAS Keflavik – 2010.

INCORPORATED: YES

REMARKS: Installation and delivery dates updated per current P-list 19 provided by SPAWARSYSCOM.

COMMENT: Page I-27, para 3., Delete the following sentence: " Early STARS systems will be installed independently. " In the next sentence, change "calendar year" to fiscal year. Info – STARS is using Method (3) approach.

INCORPORATED: YES

REMARKS: None

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ACTIVITY NAME: Naval Air Technical Training Center, Pensacola

COMMENT: Page i/Executive Summary,..Milestone III (Production or Deployment Approval) for these systems is planned for February 2001. Part V p. V-1 reads…Achieve Milestone III decision for STARS Mar 01.

INCORPORATED: YES

REMARKS: Updated Milestones.

COMMENT: Page i/Executive Summary & Global, C-103-XXXX, DASR/ STARS Maintenance Technician Pipeline. Change to read: C-103-2069, DASR/STARS Maintenance Technician Pipeline.

INCORPORATED: YES

REMARKS: None

COMMENT: Page ii/Executive Summary, NATTC Pensacola is requesting two additional ET Instructor billets. Change to read: NATTC Pensacola requires two additional ET instructor billets to conduct the DASR/STARS maintenance training along with internal Chief of Naval Education and Training (CNET) reprogramming of existing billets. No other increases to existing Navy or Marine Corps manpower will be required to operate or maintain NASMOD components.

INCORPORATED: YES

REMARKS: None

COMMENT: Page v/List of Acronyms. Add the following: **CAI** Computer Aided Instruction, **BESEP** Basic Electronic System Engineering Plan, **GFE** Government Furnished Equipment, **GPETE** General Purpose Electronic Test Equipment, **NAWC-TSD** Naval Air Warfare Center Training Systems Division, **SPETE** Special Purpose Electronic Test Equipment, **TDW** Tower Display Workstation. Correct: **NOLF** Naval Outlying Field

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-1, Manpower and Personnel Mission Sponsor. Add PERS-406.

INCORPORATED: YES

REMARKS: None

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COMMENT: Page I-5/G.1.b.(3) First sentence, The Tower Display Workstation...Change to read, The Tower Display Workstation (TDW).

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-5/G.1.b.(3)Last sentence, ...via two or four Government-Furnished Equipment lines. Change to read, via two or four Government-Furnished Equipment (GFE) lines.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-8/G.1.c, VIDS will replace the following system components in the control tower: Change "• FA-10095 FDIO, display, keyboard, and printer" to:
"• FA-10095-2 Printer"
"• FA-10095-3 Keyboard"
"• FA-10095-4 Display"

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-9/G.2.b.Last sentence, The results are not yet available. Change to read, Site Basic Electronic System Engineering Plan (BESEP) has not been released.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-13/ H.4.b.(1), When VIDS and STARS have been installed at 50 per cent of the Navy and Marine Corps ATC facilities in the fleet,…. Change to read, When VIDS and STARS have been installed at 50 per cent of the Navy and Marine Corps ATC facilities in the fleet, both AC(A1) and ARATC courses will incorporate VIDS and STARS. And delete remainder of sentence.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-14/H.4.b.(1)Title……Air Traffic Controller, TTE/TD……A VIDS-like TD is necessary in the TOTS laboratories, capable of interfacing with existing……. Change to read, TTE/TD……VIDS-like TD's are necessary in the Radar II, Radar III and TOTS laboratories, capable of interfacing with existing 15G32 TD. TECR #N42146-99-2547 for TOTS laboratories was submitted in August 1999 and remains unfunded. TECR's for Radar Laboratories are under development and unfunded. **Add:** STARS-like TD's are necessary in the

Radar II, Radar III and TOTS laboratories, capable of interfacing with existing 15G32 TD. TECR's are under development and unfunded.

ETVS-like TD's are necessary in the Radar II, Radar III and TOTS laboratories, capable of interfacing with existing 15G32 TD. TECR's are under development and unfunded.

Scenarios utilized in the Radar II, Radar III laboratories will require review to ensure all project similar DASR/STARS type target and weather returns.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-15/H.4.b.(1), Advanced Radar Air Traffic Control, Change Description to read, This course is designed to provide Navy and Marine Corps journeyman-level air traffic controllers with advanced instruction in terminal radar approach control procedures, including technical knowledge and practical application. Hands-on training is provided on Arrival Control, Departure Control, and Approach Control operating positions. This course will provide the student with the training necessary to function effectively in a radar approach control facility. All students will be required to demonstrate a knowledge of procedures, phraseology, and equipment encountered in the typical approach control environment.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-15/ H.4.b.(2), Maintainer paragraph, Change to read, NATTC Pensacola currently has three maintenance pipelines that will become obsolete once DASR, STARS, and VIDS are deployed to the Navy and Marine Corps ATC facilities. A new DASR/STARS Maintenance pipeline and a new NEC will be established to support DASR, STARS, and VIDS training requirements. The current NEC's for the AN/TPX-42A(V)5 Direct Altitude and Identity Readout (DAIR), AN/TPX-42A(V)10 Radar Air Traffic Control Facility (RATCF) DAIR and the AN/GPN-27 Radar will be phased-out as DASR, STARS, and VIDS are installed at ATC facilities. Marine Corps personnel with MOS 5953 will attend the Navy maintenance training courses at NATTC Pensacola, as requirements dictate. A new MOS will not be required.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-16/ H.4.b.(2), AN/TPX-42(V)5 Length...78 days. Change to: AN/TPX-42A(V)5 Length…… 85 days.

INCORPORATED: NO

REMARKS: Current OATMS data indicates course length as 78 days. Course length will be updated in future iterations of this NTSP when MTRR actions are completed.

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COMMENT: Page I-17/H.4.b.(2), AN/TPX-42(V)10 Length... 89 days. Change to: AN/TPX-42A(V)10 Length…… 96 days

INCORPORATED: NO

REMARKS: Current OATMS data indicates course length as 89 days. Course length will be updated in future iterations of this NTSP when MTRR actions are completed.

COMMENT: Page I-18/H.4.b.(2), AN/GPN-27 Length…… 101 days. Change to: Length……75 days.

INCORPORATED: NO

REMARKS: Current OATMS data indicates course length as 101 days. Course length will be updated in future iterations of this NTSP when MTRR actions are completed.

COMMENT: Page I-20/H.4.d., Title … DASR/STARS CIN…… C-103-XXXX.Length…… 16 weeks. Change to: CIN…… C-103-2069 Length…… 110 days.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-20 & 21/H.4.d., Note: The DASR/STARS Maintenance Technician Pipeline will consist of the following courses:…. Change to read, Note: The DASR/STARS Maintenance Technician Pipeline will consist of the following courses:

- C-103-2045, Air Traffic Control Maintenance Preparatory
- C-103-2018, DASR Maintenance
- C-103-2025, STARS Maintenance

Add: "Air Traffic Control Maintenance Preparatory course conversion to CBT will include LAN, WAN UNIX, and OS training, to provide necessary prerequisite skills needed to maintain NAS MOD equipment.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-23/K.1., LOCATION..NATTC Pensacola (1) NATTC Pensacola (2). Add: "Note: NATTC will receive 2 STARS, DASR, and VIDS systems for training purposes.

INCORPORATED: YES

REMARKS: None

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COMMENT: Page I-24/K.1., LOCATION: MCAS Kaneohe Bay. Change to: MCAF Kaneohe Bay.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-25/K.1., LOCATION: NAWS Point Mugu. Change to: NAS Point Mugu.

INCORPORATED: NO

REMARKS: NAS Point Mugu has been renamed to NAVBASE Ventura County.

COMMENT: Page I-27/K.5.(1), VIDS TTE for the STARS maintenance technician course is required in FY00 for the first system and FY04 for the second. Change to read, VIDS TTE for the STARS maintenance technician course is required in FY00 for the first system and FY01 for the second.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-27/K.5.(2), Training device 15G31 shore-based Radar ATC Training Systems supporting AC"A1" laboratory and……. Change to read, Training device 15G31 shore-based Radar ATC Training Systems supporting AC"A1" laboratories and…….

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-28/M., ETVS NTSP N-88-NTSP-A-50-9701A, Change to read, ETVS NTSP N-88-NTSP-A-50-9701D.

INCORPORATED: NO

REMARKS: The current iteration of the ETVS NTSP is approved "A", vice draft "D".

COMMENT: Page II-3/II.A.1.a., COMCAB, Cherry Point. Change to read, MCABEA, Cherry Point.

INCORPORATED: NO

REMARKS: Per MSGT Yates, Total Force Structure Division, MCCDC, Quantico, COMCAB East has been absorbed by and falls under the Table of Organization (T/O) of H&HS Cherry Point.

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COMMENT: Page II-3/ II.A.1.a, COMCAB Miramar. Change to read, MCABWA Miramar.

INCORPORATED: NO

REMARKS: Per MSGT Yates, Total Force Structure Division, MCCDC, Quantico, COMCAB West has been absorbed by and falls under the Table of Organization (T/O) of H&HS Miramar.

COMMENT: Page II-31/II.A.4., CHARGEABLE STUDENT BILLET REQUIREMENTS. Quantities listed appear low and is unclear if all courses are under consideration.

INCORPORATED: NO

REMARKS: Average On Board and Chargeable projections are based upon total of USMC requirements over a five year period. Projections, based on requirements are normally higher than actual student throughput. This document accounts for USN and USMC students only.

COMMENT: Page II-34/II.A.5.d., ENLISTED – USMC. Delete MOS 5956 & 5957, they do not exist.

INCORPORATED: YES

REMARKS: The USMC no longer billets by use of this secondary MOS.

COMMENT: Page II-36/II.B.1., C-103-2051. Add USMC 4 enlisted.

INCORPORATED: NO

REMARKS: USMC totals included in C-103-2080.

COMMENT: Page II-36/II.B.1., C-103-2053. Add USMC 4 enlisted.

INCORPORATED: NO

REMARKS: USMC totals included in C-103-2080.

COMMENT: Page II-36/II.B.1., C-103-2060. Add USMC 8 enlisted.

INCORPORATED: NO

REMARKS: USMC totals included in C-103-2080.

COMMENT: Page II-36/II.B.1., C-103-2080 USMC 41 enlisted. Change to read, USMC 64 enlisted.

INCORPORATED: NO

REMARKS: Average On Board and Chargeable projections are based upon total of USMC requirements over a five year period. Projections, based on requirements are normally higher than actual student throughput.

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COMMENT: Page II-37/II.B.1., C-222-2010 ATTRITION FACTOR: Navy 10% USMC 0%. Change to read, C-222-2010 ATTRITION FACTOR: Navy 19% USMC 13%.

INCORPORATED: NO

REMARKS: Attrition factor of 10% Navy and 0% USMC is utilized over a five year period.

COMMENT: Page II-37/II.B.1., C-222-2022 ATTRITION FACTOR: Navy 10% USMC 0%. Change to read, C-222-2010 ATTRITION FACTOR: Navy 0% USMC 0%.

INCORPORATED: NO

REMARKS: Attrition factor of 10% Navy and 0% USMC is utilized over a five year period.

COMMENT: Page III-3/III.A.1., INITIAL TRAINING REQUIREMENTS all courses listed. Identify if courses are for DASR or STARS……i.e. STARS Installation and Checkout Course.

INCORPORATED: YES

REMARKS: Listed Initial Training Requirements are for DASR.

COMMENT: Page III-5/III.A.2.a., C-103-2080……41 enlisted. Change to read, 64 enlisted.

INCORPORATED: NO

REMARKS: Average On Board and Chargeable projections are based upon total of USMC requirements over a five year period. Projections, based on requirements are normally higher than actual student throughput.

COMMENT: Page IV-2/IV.A.1., GPETE. List GPETE in TTE groups of which it supports.

INCORPORATED: YES

REMARKS: GPETE required modified with data provided by NATTC Pensacola.

COMMENT: Page IV-2/IV.A.1., GPETE QTY REQD……1. Add NOTE: QTY REQD is based on initial installation. Additional 04/05 installations will require additional GPETE.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-2/IV.A.1., GPETE DATE REQD……May 02. All materials for new courses of instruction are required 90 days prior to course pilot, per NAVEDTRA 130A section 6. Adjust GPETE dates as needed.

INCORPORATED: NO

REMARKS: RFT for DASR/STARS is August 02. All GPETE should be onboard May 02.

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COMMENT: Page IV-4/IV.B.1., TRAINING SERVICES. Appears only DASR courses are listed. Update with STARS and VIDS course information.

INCORPORATED: YES

REMARKS: STARS On-site Operator Training discussed in Part I.

COMMENT: Page IV-5/IV.B.2., CURRICULA MATERIALS AND TRAINING AIDS. All materials for new courses of instruction are required 90 days prior to course pilot, per NAVEDTRA 130A section 6. Adjust dates as needed.

INCORPORATED: NO

REMARKS: RFT for DASR/STARS is August 02. All Curricula Material and Training Aids should be onboard May 02.

COMMENT: Page IV-2/IV.A.1., CURRICULA MATERIALS AND TRAINING AIDS TYPES OF MATERIAL OR AID, Electronic Display Device……QTY REQD 1. Change quantity to read "two" vice one. Delete Toshiba G3 LCD Projector

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-6 through IV-10/IV.B.3., TECHNICAL MANUALS QTY REQ'D 10. Contact NATTC to adjust quantities as needed.

INCORPORATED: YES

REMARKS: Technical manuals required modified with data provided by NATTC Pensacola.

COMMENT: Page V-2/MPT Milestones, TSA ….Begin Follow-on Training for DASR……May 02. Change date to Aug 02.

INCORPORATED: YES

REMARKS: None

COMMENT: Page VII-3/POC's, Mr. Robert Vanhook. Change to read,

Major Turpin	Comm: (850) 452-9222
CNET, ETE-322	DSN: 922-9222
maj-robert.turpin@cnet.navy.mil	FAX: (850) 452-8914

INCORPORATED: YES

REMARKS: None

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ACTIVITY NAME: Naval Air Systems Command, PMA-213 (Mr. Kyle Rogers)

COMMENT: Change Paragraph G.1.b. to read; "In the FAA community the DoD Advanced Automated System (DAAS) is known as STARS, but for this document it will be referred to as STARS.

INCORPORATED: YES

REMARKS: None

COMMENT: Paragraph M – The table in this paragraph refers to a STARS ORD Phase II and a STARS ORD Phase III. I believe it should refer to the NAS Mod ORD II and the NAS Mod ORD III (which has not been signed as of 15 April 2001. In addition, VIDS requirements are stated in Annex A of the NAS Mod ORD III.

INCORPORATED: YES

REMARKS: Added NAS Mod ORD III.

COMMENT: Below is an example of a portion of the NAS Mod NTSP Part II. There are no AC's listed for NAVSTA Mayport. There are 13 ET's listed but no AC's. Additionally, for NAVSTA Roosevelt Roads there are no AC3's or ACAN's listed and I know that there are AC3 and ACAN billets at NAVSTA Roosevelt Roads. These are just examples; the whole section needs to be verified.

NAVSTA Mayport, 60201

ACDU	0	1	ETC	1580	1574
	0	1	ET1	1574	1480
	0	1	ET1	1580	1480
	0	3	ET2	1580	1480
	0	1	ET3	1574	1480
	0	2	ET3	1580	1480
SELRES	0	1	ET1	1580	
	0	3	ET2	1580	
ACTIVITY TOTAL:	0	13			

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NAVSTA Roosevelt Roads, 00389

ACDU	0	1	ACCM	6901	
	0	3	ACC	6901	
	0	10	AC1	6901	
	0	11	AC2	6901	
	0	1	ET2	1578	9527
	0	2	ET2	1580	
	0	1	ET3	1578	
	0	1	ET3	1580	9527
TAR	0	1	AC1	6901	
	0	1	ET1	1578	
ACTIVITY TOTAL:	0	32			

INCORPORATED: NO

REMARKS: This NTSP addresses training requirements. Only billets associated with an NEC are listed. An NEC is only awarded after successful completion of the appropriate NAS Mod component (operator or maintainer) training pipeline.

COMMENT: There are facilities listed in this section (Part II) that are not scheduled to get DASR, DAAS or VIDS for example as of now the FACSFAC's are not getting NAS Mod, yet they are listed in this section.

INCORPORATED: NO

REMARKS: This NTSP addresses training requirements. Only billets associated with an NEC are listed. An NEC is only awarded after successful completion of the appropriate NAS Mod component (operator or maintainer) training pipeline. Personnel attending the appropriate training pipeline will receive NAS Mod related training associated with their NEC regardless of their duty assignment.

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ACTIVITY NAME: Naval Air Systems Command, PMA-205

COMMENT: Page I; Executive Summary; Third paragraph: Change date of DASR/STARS Maintenance Pipeline from "August" to "October" 2002.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-11; Paragraph 4.: Same comment as above. Change date of DASR/STARS Maintenance Pipeline from "August" to "October" 2002.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-14; Operator Training Table: Change "First Phase" date for NAS Oceana DET Norfolk from "May 2001" to "June 2001".

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-18; NOTE: Re-write second sentence to include the following: STARS TTE will be installed starting in OCT 2001 for the first system and in CY05 for the second system. VIDS TTE (2 systems) is planned to be installed at NATTC Pensacola in FEB 2002 (consistent with install schedule).

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-22; Training Pipeline: Change RFT date from "August" to "October" 2002.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-28; Paragraph 5. (1), Maintenance Training: Remove next to last sentence "No new training devices…" and place as last sentence in Paragraph 5. (2). Relates to operator training and not maintenance training. Re-write last sentence concerning VIDS TTE installation. Two VIDS Systems to be utilized as TTE will be installed at NATTC Pensacola in FEB 2002 (consistent with install schedule).

INCORPORATED: YES

REMARKS: None

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COMMENT: Page I-28; Paragraph 5. (2), Operator Training: Add "(FY05)" at the end of second sentence (anticipated FY when 50% of STARS installs will be complete).

INCORPORATED: YES

REMARKS: None

COMMENT: Part IV: Update Training Hardware/TTE to reflect revised dates.

INCORPORATED: YES

REMARKS: None

COMMENT: Part V: Update MPT Milestones to reflect revised dates.

INCORPORATED: YES

REMARKS: None

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NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
PROPOSED NAVY TRAINING SYSTEM PLAN

ACTIVITY NAME: Space and Naval Warfare Systems Center, Charleston (ACCM Kent)

COMMENT: On page i in the last paragraph it talks about ACs Navy and Marine Corps and their NECs/MOSs for using the systems. Does it have to be tied to an NEC or MOS? Because virtually all controllers will use the new systems; even the ones without the NECs or MOSs.

INCORPORATED: YES

REMARKS: Deleted “with NECs/MOSs” reference

COMMENT: On page iv: ATIS is "automatic terminal information service" BESEP is "base electronic system engineering plan" If you choose to change these, the documents need to be word checked for their use in other places (i.e. BESEP on page I-9, ATIS on page I-8).

INCORPORATED: YES

REMARKS: None

COMMENT: On page I-2 under 1. The second bullet talks about NAS Mod being used at NATTC for the Maintenance side of the house. Is not the AC side of the house using some of the NAS Mod equipment also?

INCORPORATED: YES

REMARKS: Deleted the words “Maintenance Division”.

COMMENT: On page I-8. CDR Kelch stopped the ATAA from being put in VIDS.

INCORPORATED: YES

REMARKS: None

COMMENT: On page I-9 2c second paragraph. The number of buttons at the bottom of the VIDS screen is going to change. Recommend using "a series of buttons located".

INCORPORATED: YES

REMARKS: None

COMMENT: On page I-11 d1.3. I thought SPAWARSYSCEN Charleston was going to do interim maintenance support for VIDS.

INCORPORATED: YES

REMARKS: None

COMMENTS / RECOMMENDATIONS ON THE
NATIONAL AIRSPACE SYSTEM MODERNIZATION PROGRAM
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COMMENT: On page I-14 b(1). It talks about when 50% of the Navy/Marine Corps ATC facilities get VIDS. I don't think FY03 is a good date for VIDS anymore. FY05 would be a better date.

INCORPORATED: YES

REMARKS: None

COMMENT: On page I-24. It does not appear that the schedules match P-List 21, which now is approved. I didn't know if you wanted to update the schedules in this document.

INCORPORATED: YES

REMARKS: Updated schedule with P-List 21 provided.